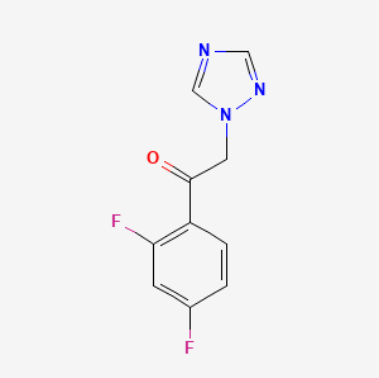
DFTA

INTERMEDIATE • TECHNICAL PRODUCT PROFILE



CAS NUMBER	86404-63-9
MOLECULAR FORMULA	C10H7F2N3O
MOLECULAR WEIGHT	223.18 g/mol
PUBCHEM CID	588080
CHEMICAL / IUPAC NAME	1-(2,4-difluorophenyl)-2-(1,2,4-triazol-1-yl)ethanone

DESCRIPTION

DFTA is presented in the Swati Industries portfolio as a pharmaceutical intermediate. Its identity, grade, impurity profile and suitability for a specific downstream synthesis must be confirmed against the approved specification and batch COA.

R&D; FOCUS

Route scouting and reaction selectivity; impurity formation and purge studies; crystallization and isolation screening; residual solvent strategy; scale-up robustness and stability-indicating method development.

ANALYTICAL TESTING

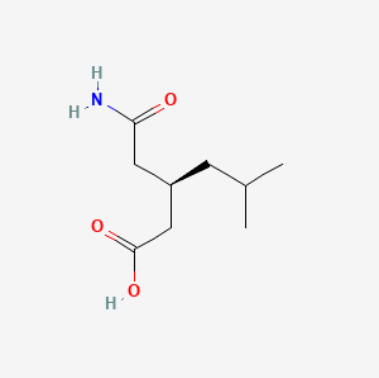
Identity by FTIR/NMR or LC-MS; assay and related substances by HPLC; residual solvents by GC; water content; appearance and batch-specific tests.

Reference: PubChem CID 588080 — pubchem.ncbi.nlm.nih.gov/compound/588080

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

R-CMH

INTERMEDIATE • TECHNICAL PRODUCT PROFILE



CAS NUMBER	181289-33-8
MOLECULAR FORMULA	C9H17NO3
MOLECULAR WEIGHT	187.24 g/mol
PUBCHEM CID	11084586
CHEMICAL / IUPAC NAME	(3R)-3-(2-amino-2-oxoethyl)-5-methylhexanoic acid

DESCRIPTION

R-CMH is presented in the Swati Industries portfolio as a pharmaceutical intermediate. Its identity, grade, impurity profile and suitability for a specific downstream synthesis must be confirmed against the approved specification and batch COA.

R&D; FOCUS

Route scouting and reaction selectivity; impurity formation and purge studies; crystallization and isolation screening; residual solvent strategy; scale-up robustness and stability-indicating method development.

ANALYTICAL TESTING

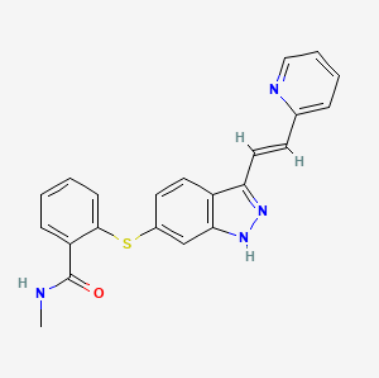
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Reference: PubChem CID 11084586 — pubchem.ncbi.nlm.nih.gov/compound/11084586

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Axitinib

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	319460-85-0
MOLECULAR FORMULA	C22H18N4OS
MOLECULAR WEIGHT	386.5 g/mol
PUBCHEM CID	6450551
CHEMICAL / IUPAC NAME	N-methyl-2-[[3-[(E)-2-pyridin-2-ylethenyl]-1 H-indazol-6-yl]sulfanyl]benzamide

DESCRIPTION

Axitinib is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

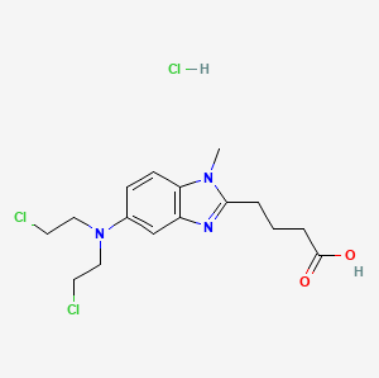
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 6450551 — pubchem.ncbi.nlm.nih.gov/compound/6450551

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Bendamustine hydrochloride

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	3543-75-7
MOLECULAR FORMULA	C16H22Cl3N3O2
MOLECULAR WEIGHT	394.7 g/mol
PUBCHEM CID	77082
CHEMICAL / IUPAC NAME	4-[5-[bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid;hydrochloride

DESCRIPTION

Bendamustine hydrochloride is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

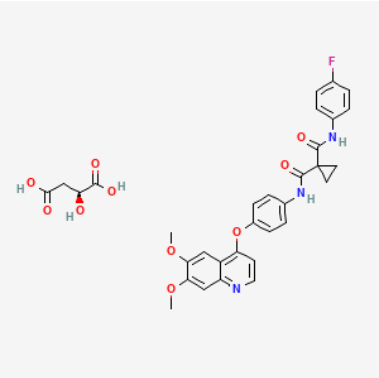
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 77082 — pubchem.ncbi.nlm.nih.gov/compound/77082

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Carbozantinib malate

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	1140909-48-3
MOLECULAR FORMULA	C32H30FN3O10
MOLECULAR WEIGHT	635.6 g/mol
PUBCHEM CID	25102846
CHEMICAL / IUPAC NAME	1-N-[4-(6,7-dimethoxyquinolin-4-yl)oxyphenyl]-1-N'-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide;(2S)-2-hydroxybutanedioic acid

DESCRIPTION

Carbozantinib malate is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

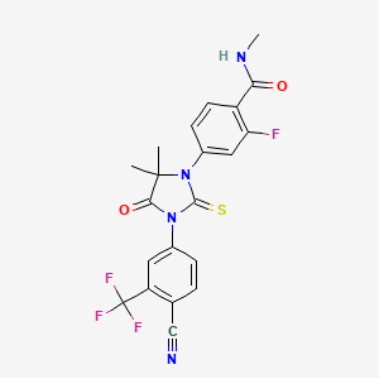
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 25102846 — pubchem.ncbi.nlm.nih.gov/compound/25102846

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Enzalutamide

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	915087-33-1
MOLECULAR FORMULA	C21H16F4N4O2S
MOLECULAR WEIGHT	464.4 g/mol
PUBCHEM CID	15951529
CHEMICAL / IUPAC NAME	4-[3-[4-cyano-3-(trifluoromethyl)phenyl]-5,5-dimethyl-4-oxo-2-sulfanylideneimidazolidin-1-yl]-2-fluoro-N-methylbenzamide

DESCRIPTION

Enzalutamide is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

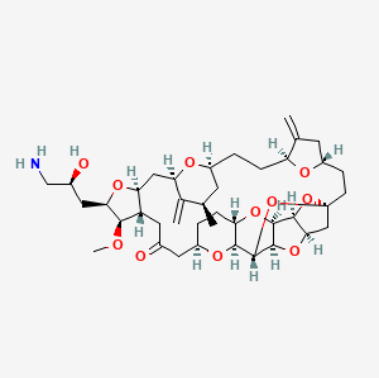
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 15951529 — pubchem.ncbi.nlm.nih.gov/compound/15951529

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Eribulin

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	253128-41-5
MOLECULAR FORMULA	C40H59NO11
MOLECULAR WEIGHT	729.9 g/mol
PUBCHEM CID	11354606
CHEMICAL / IUPAC NAME	(1S,3S,6S,9S,12S,14R,16R,18S,20R,21R,22S,26R,29S,31R,32S,33R,35R,36S)-20-[(2S)-3-amino-2-hydroxypropyl]-21-methoxy-14-methyl-8,15-dimethylidene-2,19,30,34,37,39,40,41-octaoxanonacyclo[24.9.2.13,32.13,33.16,9.112,16.018,22.029,36.031,35]hentetracontan-24-one

DESCRIPTION

Eribulin is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

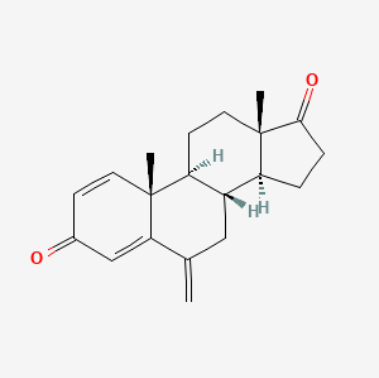
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 11354606 — pubchem.ncbi.nlm.nih.gov/compound/11354606

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Exemestane

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	107868-30-4
MOLECULAR FORMULA	C20H24O2
MOLECULAR WEIGHT	296.4 g/mol
PUBCHEM CID	60198
CHEMICAL / IUPAC NAME	(8R,9S,10R,13S,14S)-10,13-dimethyl-6-methylidene-7,8,9,11,12,14,15,16-octahydrocyclopenta[a]phenanthrene-3,17-dione

DESCRIPTION

Exemestane is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

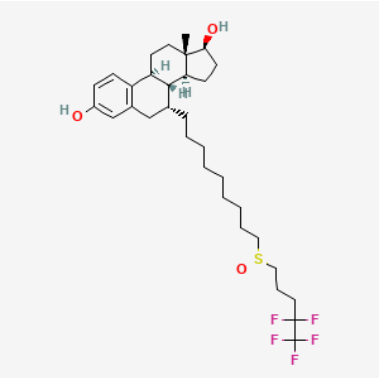
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 60198 — pubchem.ncbi.nlm.nih.gov/compound/60198

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Fulvestrant

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	129453-61-8
MOLECULAR FORMULA	C32H47F5O3S
MOLECULAR WEIGHT	606.8 g/mol
PUBCHEM CID	104741
CHEMICAL / IUPAC NAME	(7R,8R,9S,13S,14S,17S)-13-methyl-7-[9-(4,4,5,5,5-pentafluoropentylsulfinyl)nonyl]-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthrene-3,17-diol

DESCRIPTION

Fulvestrant is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

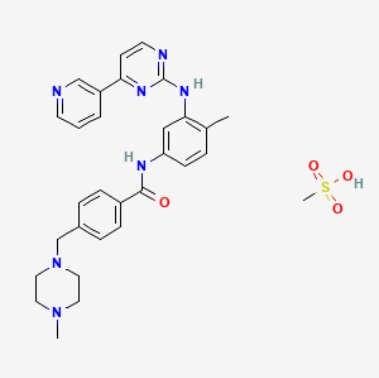
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Reference: PubChem CID 104741 — pubchem.ncbi.nlm.nih.gov/compound/104741

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Imatinib mesylate

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	220127-57-1
MOLECULAR FORMULA	C30H35N7O4S
MOLECULAR WEIGHT	589.7 g/mol
PUBCHEM CID	123596
CHEMICAL / IUPAC NAME	methanesulfonic acid;4-[(4-methylpiperazin-1-yl)methyl]-N-[4-methyl-3-[(4-pyridin-3-ylpyrimidin-2-yl)amino]phenyl]benzamide

DESCRIPTION

Imatinib mesylate is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

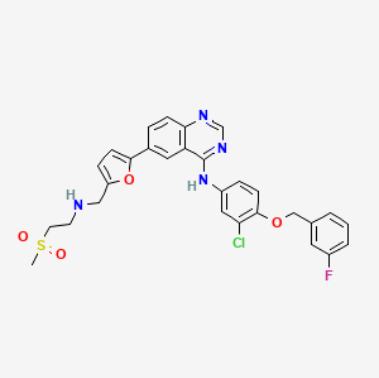
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 123596 — pubchem.ncbi.nlm.nih.gov/compound/123596

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Lapatinib

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	231277-92-2
MOLECULAR FORMULA	C29H26ClFN4O4S
MOLECULAR WEIGHT	581.1 g/mol
PUBCHEM CID	208908
CHEMICAL / IUPAC NAME	N-[3-chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[(2-methylsulfonylethylamino)methyl]furan-2-yl]quinazolin-4-amine

DESCRIPTION

Lapatinib is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

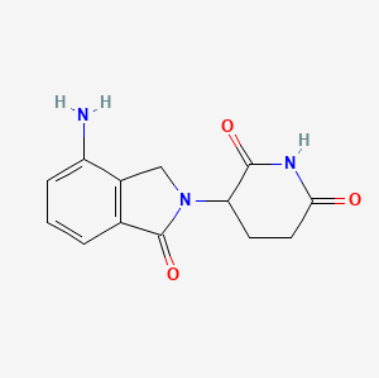
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Reference: PubChem CID 208908 — pubchem.ncbi.nlm.nih.gov/compound/208908

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Lenalidomide

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	191732-72-6
MOLECULAR FORMULA	C13H13N3O3
MOLECULAR WEIGHT	259.26 g/mol
PUBCHEM CID	216326
CHEMICAL / IUPAC NAME	3-(7-amino-3-oxo-1H-isoindol-2-yl)piperidine-2,6-dione

DESCRIPTION

Lenalidomide is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

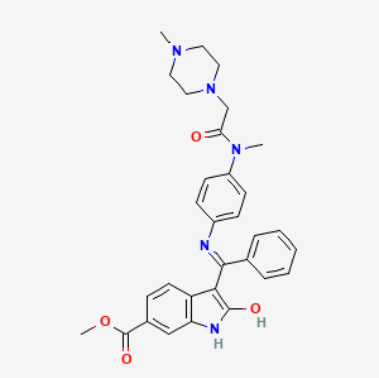
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 216326 — pubchem.ncbi.nlm.nih.gov/compound/216326

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Nintedanib

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	656247-17-5
MOLECULAR FORMULA	C31H33N5O4
MOLECULAR WEIGHT	539.6 g/mol
PUBCHEM CID	135423438
CHEMICAL / IUPAC NAME	methyl 2-hydroxy-3-[N-[4-[methyl-[2-(4-methylpiperazin-1-yl)acetyl]amino]phenyl]-C-phenylcarbonimidoyl]-1H-indole-6-carboxylate

DESCRIPTION

Nintedanib is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

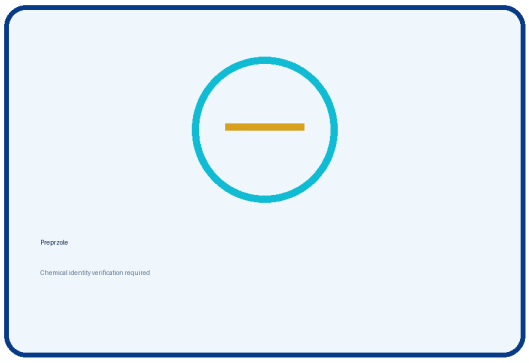
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Reference: PubChem CID 135423438 — pubchem.ncbi.nlm.nih.gov/compound/135423438

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Preprzole

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	Confirm from COA
MOLECULAR FORMULA	Name verification required
MOLECULAR WEIGHT	—
PUBCHEM CID	Identity verification required
CHEMICAL / IUPAC NAME	Chemical identity must be confirmed before structure publication.

DESCRIPTION

Preprzole is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

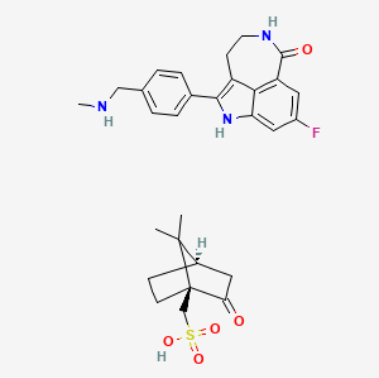
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference status: Product name/chemical identity requires confirmation before publication.

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Rucaparib camsylate

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	1859053-21-6
MOLECULAR FORMULA	C29H34FN3O5S
MOLECULAR WEIGHT	555.7 g/mol
PUBCHEM CID	121490161
CHEMICAL / IUPAC NAME	[(1S,4R)-7,7-dimethyl-2-oxo-1-bicyclo[2.2.1]heptanyl]methanesulfonic acid;6-fluoro-2-[4-(methylaminomethyl)phenyl]-3,10-diazatricyclo[6.4.1.04,13]trideca-1,4,6,8(13)-tetraen-9-one

DESCRIPTION

Rucaparib camsylate is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

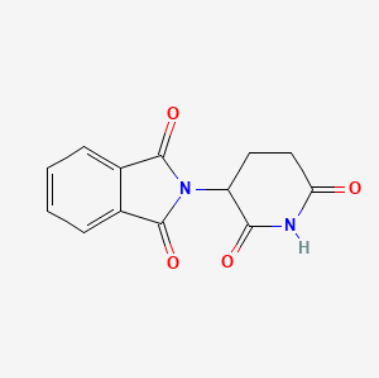
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 121490161 — pubchem.ncbi.nlm.nih.gov/compound/121490161

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Thalidomide

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	50-35-1
MOLECULAR FORMULA	C13H10N2O4
MOLECULAR WEIGHT	258.23 g/mol
PUBCHEM CID	5426
CHEMICAL / IUPAC NAME	2-(2,6-dioxopiperidin-3-yl)isoindole-1,3-dione

DESCRIPTION

Thalidomide is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

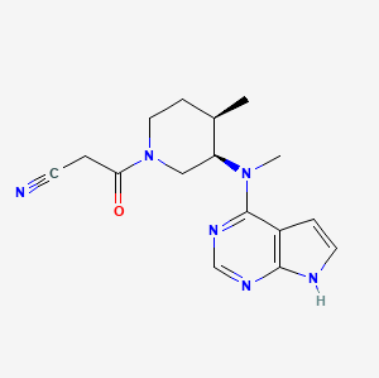
Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 5426 — pubchem.ncbi.nlm.nih.gov/compound/5426

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.

Tofacitinib

ONCOLOGY API • TECHNICAL PRODUCT PROFILE



CAS NUMBER	477600-75-2
MOLECULAR FORMULA	C16H20N6O
MOLECULAR WEIGHT	312.37 g/mol
PUBCHEM CID	9926791
CHEMICAL / IUPAC NAME	3-[(3R,4R)-4-methyl-3-[methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino]piperidin-1-yl]-3-oxopropanenitrile

DESCRIPTION

Tofacitinib is listed in the oncology-focused API portfolio. The page is a technical overview only; clinical, regulatory and commercial status must be established from approved product documentation.

R&D; FOCUS

Impurity identification and fate mapping; genotoxic-impurity risk assessment where relevant; robust assay/related-substances methods; solid-state characterization; stability and packaging studies.

ANALYTICAL TESTING

Identity by IR/LC-MS/NMR; assay and related substances by HPLC/UPLC; residual solvents by GC; water content; XRPD/DSC and particle-size testing where specification-relevant.

Reference: PubChem CID 9926791 — pubchem.ncbi.nlm.nih.gov/compound/9926791

Technical overview only; not a validated manufacturing process or a claim of company capability. Confirm supplied chemical form, CAS number, grade, specifications and regulatory status from the approved specification and batch COA before use.