



Product Information

Microtubule/Tubulin inhibitor, Cabazitaxel, Purity $\geq 98\%$

Cat. No.: X24-08-YM222

Size: 50 mg; 100 mg; 250 mg; 500 mg

MDL: MFCD18827611

CAS Number: 183133-96-2

Compound CID: 9854073

Synonym: 183133-96-2; TXD-258; XRP 6258; Jevtana; Taxoid XRP6258; Xrp6258;

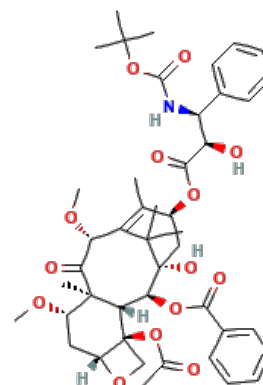
[(1S,2S,3R,4S,7R,9S,10S,12R,15S

)-4-Acetyloxy-1-hydroxy-15-[(2R,3S

)-2-hydroxy-3-[(2-methylpropan-2-yl)oxycarbonylamino]-3-phenylpropanoyl]oxy-9,12-d

imethoxy-10,14,17,17-tetramethyl-11-oxo

-6-oxatetracyclo[11.3.1.03,10.04,7]heptadec-13-en-2-yl] benzoate



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Cabazitaxel, soluble in DMSO and insoluble in water and ethanol, is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting microtubule/tubulin.
Molecular Weight	835.93
Molecular Formula	C ₄₅ H ₅₇ NO ₁₄
IUPAC Name	[(1S,2S,3R,4S,7R,9S,10S,12R,15S)-4-Acetyloxy-1-hydroxy-15-[(2R,3S)-2-hydroxy-3-[(2-methylpropan-2-yl)oxycarbonylamino]-3-phenylpropanoyl]oxy-9,12-dimethoxy-10,14,17,17-tetramethyl-11-oxo-6-oxatetracyclo[11.3.1.03,10.04,7]heptadec-13-en-2-yl] benzoate
InChI	InChI=1S/C45H57NO14/c1-24-28(57-39(51)33(48)32(26-17-13-11-14-18-26)46-40(52)60-41(3,4)5)2-45(53)37(58-38(50)27-19-15-12-16-20-27)35-43(8,36(49)34(55-10)31(24)42(45,6)7)29(54-9)21-30-44(35,23-56-30)59-25(2)47/h11-20,28-30,32-35,37,48,53H,21-23H2,1-10H3,(H,46,52)/t28-,29-,30+,32-,33+,34+,35-,37-,43+,44-,45+/m0/s1
InChI Key	BMQGVNUXMIRLCK-OAGWZNDDSA-N
Canonical SMILES	CC1=C2C(C(=O)C3(C(CC4C(C3C(C(C2(C)C)(CC1OC(=O)C(C(C5=CC=CC=C5)NC(=O)OC(C)(C)C)O)O)OC(=O)C6=CC=CC=C6)(CO4)OC(=O)C)OC)C)OC
Isomeric SMILES	CC1=C2[C@H](C(=O)[C@@]3([C@H](C[C@@H]4[C@]([C@H]3[C@@H]([C@@](C2(C)C)(C[C@@H]1OC(=O)[C@@H]([C@H](C5=CC=CC=C5)NC(=O)OC(C)(C)C)O)O)OC(=O)C6=CC=CC=C6)(C



O=C1C(=O)C(=O)C(=O)C1

Form	Lyophilized powder
Purity	≥98%
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	<i>In vitro</i> : DMSO: 91 mg/mL (108.85 mM); Water: insoluble; Ethanol: insoluble
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Cabazitaxel is a cytoskeletal signaling inhibitor that plays a key role in inhibiting microtubule depolymerization, which disrupts mitosis and induces cell death in cancer cells.
Storage	Store at -20°C, and keep desiccated.