



Product Information

Microtubule/Tubulin inhibitor, Epothilone A, Purity $\geq 98\%$

Cat. No.: X24-08-YM217

Size: 5 mg; 10 mg; 25 mg; 50 mg

CAS Number: 152044-53-6

Compound CID: 448799

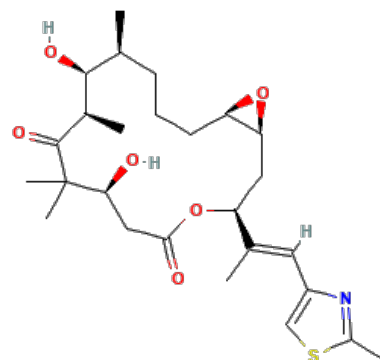
Synonym: 152044-53-6; EpoA; Epothilone-A; Epothilon A;

(1S,3S,7S,10R,11S,12S,16R

)-7,11-Dihydroxy-8,8,10,12-tetramethyl-3-[(E

)-1-(2-methyl-1,3-thiazol-4-yl)prop-1-en-2-yl]-4,17-dioxabicyclo[14.1.0]heptadecane-5,

9-dione



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

Product Information

Description	Epothilone A, soluble in DMSO and ethanol and insoluble in water, is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting microtubule/tubulin. It targets the tubulin.
Molecular Weight	493.7
Molecular Formula	C ₂₆ H ₃₉ NO ₆ S
Targets	Tubulin: 2 μ M
IUPAC Name	(1S,3S,7S,10R,11S,12S,16R)-7,11-Dihydroxy-8,8,10,12-tetramethyl-3-[(E)-1-(2-methyl-1,3-thiazol-4-yl)prop-1-en-2-yl]-4,17-dioxabicyclo[14.1.0]heptadecane-5,9-dione
InChI	InChI=1S/C26H39NO6S/c1-14-8-7-9-19-21(32-19)11-20(15(2)10-18-13-34-17(4)27-18)33-23(29)12-22(28)26(5,6)25(31)16(3)24(14)30/h10,13-14,16,19-22,24,28,30H,7-9,11-12H2,1-6H3/b15-10+/t14-,16+,19+,20-,21-,22-,24-/m0/s1
InChI Key	HESCAJZNRMSMJG-KKQRBIROSA-N
Canonical SMILES	CC1CCCC2C(O2)CC(OC(=O)CC(C(C(=O)C(C1O)C)(C)C)O)C(=CC3=CSC(=N3)C)C
Isomeric SMILES	C[C@H]1CCCC[C@@H]2[C@@H](O2)C[C@H](OC(=O)C[C@@H](C(C(=O)[C@@H]([C@H]1O)C)(C)C)O)/C(=C/C3=CSC(=N3)C)/C
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects



Solubility	<i>In vitro</i> : DMSO: 92 mg/mL (186.36 mM); Water: insoluble; Ethanol: 92 mg/mL (186.36 mM)
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Epothilone A is a cytoskeletal signaling inhibitor that can be used for its cytotoxic properties, used primarily in cancer research.
Storage	Store at -20°C, and keep desiccated.
