CD BioGlyco
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Product Information

Microtubule/Tubulin inhibitor, Epothilone B, Purity ≥98%

Cat. No.: X24-08-YM218

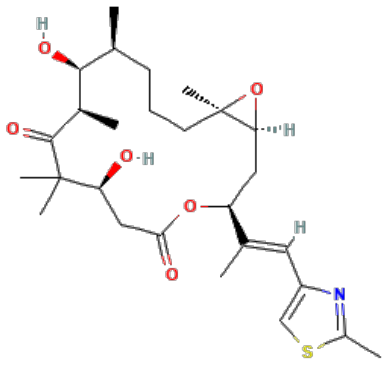
Size: 2 mg; 5 mg; 10 mg; 25 mg

MDL: MFCD02101921

CAS Number: 152044-54-7

Compound CID: 448013

Synonym: 152044-54-7; Patupilone; Epothilone-B; EPO906; (-)-Epothilone B; Epo B; (1*S*,3*S*,7*S*,10*R*,11*S*,12*S*,16*R*)-7,11-Dihydroxy-8,8,10,12,16-pentamethyl-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 B, 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.
Molecular Weight	507.7
Molecular Formula	$C_{27}H_{41}NO_6S$
IUPAC Name	(1*S*,3*S*,7*S*,10*R*,11*S*,12*S*,16*R*)-7,11-Dihydroxy-8,8,10,12,16-pentamethyl-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/C27H41NO6S/c1-15-9-8-10-27(7)22(34-27)12-20(16(2)11-19-14-35-18(4)28-19)33-23(30)13-21(29)26(5,6)25(32)17(3)24(15)31/h11,14-15,17,20-22,24,29,31H,8-10,12-13H2,1-7H3/b16-11+/t15-,17+,20-,21-,22-,24-,27+/m0/s1
InChI Key	QXRSDHAAWVKZLJ-PVYNADRNSA-N
Canonical SMILES	CC1CCCC2(C(O2)CC(OC(=O)CC(C(C(=O)C(C1O)C)(C)C)O)C(=CC3=CSC(=N3)C)C)C
Isomeric SMILES	C[C@H]1CCC[C@@]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)C
Form	Lyophilized powder
Purity	≥98%

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Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	*In vitro*: DMSO: 93 mg/mL (183.18 mM); Water: insoluble; Ethanol: 93 mg/mL (183.18 mM); *In vivo*: 30% PEG400 + 0.5% Tween80 + 5% propylene glycol, 4 mg/mL
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Epothilone B is a cytoskeletal signaling inhibitor that can be used for its antitumor activity.
Storage	Store at -20ºC, and keep desiccated.

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