

KOS-1584

Chemical Properties

CAS No. : 1032119-44-0
Formula: C₂₇H₃₉NO₅
Molecular Weight: 489.67
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	KOS-1584 is a second-generation epothilone with potential antineoplastic activity. Epothilone KOS-1584 binds to tubulin and induces microtubule polymerization and stabilizes microtubules against depolymerization, which may result in the inhibition of cell division, the induction of G2/M arrest, and apoptosis. Compared to first-generation epothilones, this agent exhibits greater safety and efficacy with an enhanced pharmaceutical profile, including enhanced water solubility and tumor penetration, and reduced CNS exposure. In addition, epothilone KOS-1584 is a poor substrate for the P-glycoprotein (P-gp) drug efflux pump.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0422 mL	10.211 mL	20.4219 mL
5 mM	0.4084 mL	2.0422 mL	4.0844 mL
10 mM	0.2042 mL	1.0211 mL	2.0422 mL
50 mM	0.0408 mL	0.2042 mL	0.4084 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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