Data Sheet (Cat.No.T13278)

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Valecobulin hydrochloride

Chemical Properties

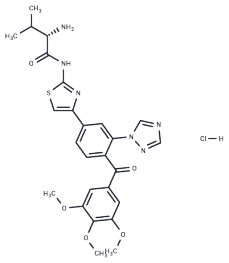
CAS No. : 1240321-53-2

Formula: C26H29ClN6O5S

Molecular Weight: 573.06

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Valecobulin hydrochloride (CKD-516 hydrochloride) is a potent inhibitor of β-tubulin polymerization. Valecobulin hydrochloride is a valine prodrug and a vascular disrupting agent.
Targets(IC50)	Microtubule Associated
In vivo	In various human tumor xenograft models,Valecobulin (5 mg/kg; intraperitoneal injection; administered on days 2, 6, 10, and 14; In male BALB/C nu/nu mice) treatment shows markedly antitumor efficacy [1].

Solubility Information

Solubility	DMSO: 125 mg/mL (218.13 mM),Sonication is recommended. H2O: 50 mg/mL (87.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.745 mL	8.7251 mL	17.4502 mL
5 mM	0.349 mL	1.745 mL	3.490 mL
10 mM	0.1745 mL	0.8725 mL	1.745 mL
50 mM	0.0349 mL	0.1745 mL	0.349 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.

Reference

Joo I, et al. Intravoxel incoherent motion diffusion-weighted MR imaging for monitoring the therapeutic efficacy of the vascular disrupting agent CKD-516 in rabbit VX2 liver tumors. Radiology. 2014 Aug;272(2):417-26.

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