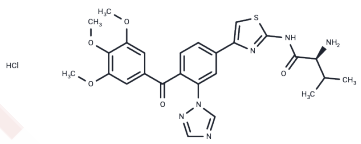
Data Sheet (Cat.No.T13278)

TargetMol

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 the valine prodrug and vasoblocker of S516. Valecobulin hydrochloride (CKD-516 hydrochloride) has a potent inhibitory effect on β-tubulin polymerization and has significant anti-tumor activity against solid tumors in mice and humans.
Targets(IC50)	Microtubule Associated
In vivo	**METHODS**: Nude mice carrying human colonic HCT116 and human colonic overexpression of the P-gp transporter HCT15 were treated with Valecobulin hydrochloride (CKD-516 hydrochloride) (5 mg/kg and 10 mg/kg, intraperitoneal injection, Q4D 4). **RESULTS** The IR of Valecobulin hydrochloride (CKD-516 hydrochloride) in HCT116 nude mice was 36% and 65%, respectively, and tumor growth was significantly inhibited in a dose-dependent manner; Valecobulin hydrochloride (CKD-516 hydrochloride) also showed resistance to MDR The potent antitumor activity of positive cell lines (HCT15), with IRs of 12% and 5%, respectively. [2]

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.
Lee J, et al. Identification of CKD-516: a potent tubulin polymerization inhibitor with marked antitumor activity against murine and human solid tumors. J Med Chem. 2010 Sep 9;53(17):6337-54.

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