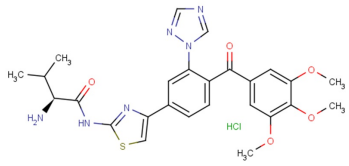
Data Sheet (Cat.No.T13278)

TargetMol
A DRUG SCREENING EXPERT

Valecobulin hydrochloride

Chemical Properties



CAS No.:	1240321-53-2
Formula:	C26H29ClN6O5S
Molecular Weight:	573.06
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Valecobulin hydrochloride (CKD-516 hydrochloride) is a valine prodrug of S516 and a vascular disrupting agent (VDA). It is a potent inhibitor of β-tubulin polymerization, and with marked antitumor activity against murine and human solid tumors.
Targets(IC_{50})	β-tubulin polymerization: None
In vivo	In various human tumor xenograft models, Valecobulin (5 mg/kg; i.p.; 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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.745 mL	8.725 mL	17.45 mL
5 mM	0.349 mL	1.745 mL	3.49 mL
10 mM	0.175 mL	0.873 mL	1.745 mL
50 mM	0.035 mL	0.175 mL	0.349 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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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