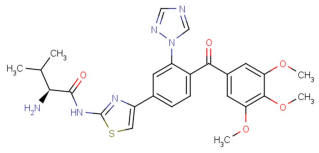
Data Sheet (Cat.No.T13278L)

TargetMol
A DRUG SCREENING EXPERT

Valecobulin

Chemical Properties



CAS No.:	1188371-47-2
Formula:	C26H28N6O5S
Molecular Weight:	536.6
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Valecobulin is a potent β-tubulin polymerization inhibitor. Valecobulin is a valine prodrug of (S516) and an avascular disrupting compound.
Targets(IC_{50})	β-tubulin polymerization: None
In vivo	In various human tumor xenograft models, Valecobulin (5 mg/kg; intraperitoneal injection; administered on days 2, 6, 10, and 14; male BALB/C nu/nu mice) treatment displays markedly antitumor efficacy [1].

Solubility Information

Solubility	DMSO: 125 mg/mL (232.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.864 mL	9.318 mL	18.636 mL
5 mM	0.373 mL	1.864 mL	3.727 mL
10 mM	0.186 mL	0.932 mL	1.864 mL
50 mM	0.037 mL	0.186 mL	0.373 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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