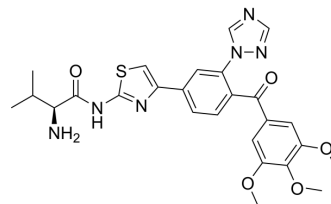


Valecobulin

Cat. No.:	HY-13598		
CAS No.:	1188371-47-2		
Molecular Formula:	C ₂₆ H ₂₈ N ₆ O ₅ S		
Molecular Weight:	536.6		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (232.95 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8636 mL	9.3179 mL	18.6359 mL
	5 mM	0.3727 mL	1.8636 mL	3.7272 mL
	10 mM	0.1864 mL	0.9318 mL	1.8636 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Valecobulin (CKD516) is a valine proagent of (S516) and a vascular disrupting agent (VDA). Valecobulin is a potent β -tubulin polymerization inhibitor with marked antitumor activity against murine and human solid tumors^{[1][2]}.

IC₅₀ & Target

β -tubulin polymerization^[1].

In Vivo

Valecobulin (5 mg/kg; intraperitoneal injection; administered on days 2, 6, 10, and 14; male BALB/C nu/nu mice) treatment shows markedly antitumor efficacy in various human tumor xenograft models^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male BALB/C nu/nu mice (5-6 weeks of age) with HCT-116 or HCT-15 cells ^[1]
Dosage:	5 mg/kg
Administration:	Intraperitoneal injection; administered on days 2, 6, 10, and 14
Result:	Had shown marked antitumor efficacy in various human tumor xenograft models.

REFERENCES

- [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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Caution: Product has not been fully validated for medical applications. For research use only.

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