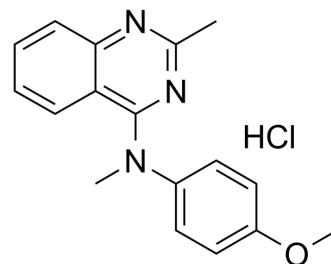


Verubulin hydrochloride

Cat. No.:	HY-12098
CAS No.:	917369-31-4
Molecular Formula:	C ₁₇ H ₁₈ ClN ₃ O
Molecular Weight:	315.8
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (197.91 mM); ultrasonic and warming and heat to 60°C					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.1666 mL	15.8328 mL	31.6656 mL
		5 mM		0.6333 mL	3.1666 mL	6.3331 mL
10 mM		0.3167 mL	1.5833 mL	3.1666 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.92 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.92 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Verubulin hydrochloride (MPC-6827 hydrochloride) is a blood brain barrier permeable microtubule-disrupting agent, with potent and broad-spectrum in vitro and in vivo cytotoxic activities. Verubulin hydrochloride (MPC-6827 hydrochloride) exhibits potent anticancer activity in human MX-1 breast and other mouse xenograft cancer models. Verubulin hydrochloride (MPC 6827 hydrochloride) is a promising candidate for the treatment of multiple cancer types ^{[1][2]} .
IC₅₀ & Target	microtubule ^[1]

REFERENCES

[1]. Kasibhatla S, et al. MPC-6827: a small-molecule inhibitor of microtubule formation that is not a substrate for multidrug resistance pumps. Cancer Res. 2007 Jun

15;67(12):5865-71.

[2]. Sirisoma N, et al. Discovery of N-(4-methoxyphenyl)-N,2-dimethylquinazolin-4-amine, a potent apoptosis inducer and efficacious anticancer agent with high blood brain barrier penetration. J Med Chem. 2009 Apr 23;52(8):2341-51.

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

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