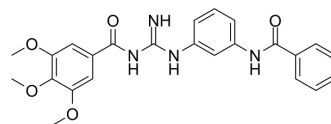


## MRT-14

Cat. No.:	HY-145918
CAS No.:	1263131-83-4
Molecular Formula:	C <sub>24</sub> H <sub>24</sub> N <sub>4</sub> O <sub>5</sub>
Molecular Weight:	448.47
Target:	Smo
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (222.98 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.2298 mL	11.1490 mL	22.2980 mL
		5 mM	0.4460 mL	2.2298 mL	4.4596 mL
	10 mM	0.2230 mL	1.1149 mL	2.2298 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 (5.57 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.57 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	MRT-14 is a potent antagonist of Smo. Smo is the major component involved in signal transduction of the Hedgehog (Hh) morphogens. MRT-14 has the potential for the research of several types of cancers linked to abnormal Hh signaling <sup>[1]</sup> .
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### REFERENCES

[1]. Manetti F, et al. Virtual screening-based discovery and mechanistic characterization of the acylthiourea MRT-10 family as smoothed antagonists. Mol Pharmacol. 2010;78(4):658-665.

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

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