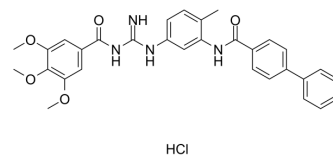


MRT-83 hydrochloride

Cat. No.:	HY-18287A
CAS No.:	1359944-60-7
Molecular Formula:	C ₃₁ H ₃₁ ClN ₄ O ₅
Molecular Weight:	575.05
Target:	Smo
Pathway:	Stem Cell/Wnt
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 : 250 mg/mL (434.74 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.7390 mL	8.6949 mL	17.3898 mL
		5 mM		0.3478 mL	1.7390 mL	3.4780 mL
		10 mM		0.1739 mL	0.8695 mL	1.7390 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.62 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	MRT-83 (hydrochloride) is the potent antagonist of Smoothened (Smo) receptor. MRT-83 (hydrochloride) inhibits the Hedgehog (Hh) signaling pathway and BODIPY-cyclopamine binding to human Smo. MRT-83 (hydrochloride) has the potential for researching cancer disease ^[1] .
IC₅₀ & Target	Smo ^[1]
In Vitro	MRT-83 (hydrochloride) (compound 86) has IC ₅₀ s of 15 and 11 nM respectively in Shh-light2 and C3H10T1/2 cells in the biological activity assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Solinas A, et al. Acylthiourea, acylurea, and acylguanidine derivatives with potent hedgehog inhibiting activity. J Med Chem. 2012;55(4):1559-1571.

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

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