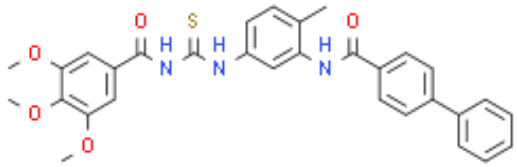
Product Data Sheet

Cas No.:	1263132-08-6	Cat. No:	PL11317
Product Name:	MRT-81		
Product synonym:	化合物MRT-81		
Chemical name:	MRT-81		
MF:	C31H29N3O5S	FW:	555.64
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	C1(C2=CC=CC=C2)=CC=C(C(NC2=CC(NC(=S)NC(=O)C3=CC(OC)=C(OC)C(OC)=C3)=CC=C2C)=O)C=C1		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

MRT-81 是人和啮齿动物 smoothened (Smo) 受体的有效拮抗剂，在 Shh-light2 细胞中的 IC_{50} 值为 41 nM。MRT-81 具有有效的 hedgehog 抑制活性。MRT-81 可用于癌症研究。

生物活性	MRT-81 is a potent antagonist of human and rodent smoothened (Smo) receptors, with an IC 50 value of 41 nM in the Shh-light2 cells. MRT-81 has potent hedgehog inhibiting activity. MRT-81 can be used for the research of cancer.
IC50 & Target[1][2]	IC50: 41 nM (Shh-light2 cells Smo receptors)
体外研究(In Vitro)	MRT-81 inbihits the differentiation of the mesenchymal pluripotent C3H10T1/2 cells into alkaline phosphatasepositive osteoblasts induced by the Smo agonist SAG (0.1 μM), with an IC50 value of 64 nM. MRT-81 (1-1000 nM) is a potent antagonist of SAG (0.01 μM)-induced proliferation of rat granule cell precursors (GCPs) with an IC50 less than 10 nM. MRT-81 (0, 0.1, 1, 10, 30, 100, 300, 1000 nM; 2 h; 37 °C) blocks BODIPY-cyclopamine (5 nM) binding to hSmo in a dose-dependent manner with an IC50 of 63 nM in HEK-hSmo cells. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years；4°C 2 years

溶解度数据	In Vitro: DMSO : 100 mg/mL (179.97 mM; Need ultrasonic)配制储备液