

Product data sheet



MedKoo Cat#: 574378 Name: MRT-10 CAS: 330829-30-6 Chemical Formula: C ₂₄ H ₂₃ N ₃ O ₅ S Exact Mass: 465.1358 Molecular Weight: 465.524		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

MRT-10 is a Smoothed (Smo) receptor antagonist that inhibits ShhN-induced Gli luciferase reporter activity in Shh-light 2 cells and acts as an inverse agonist during nontranscriptional Hedgehog pathway activation.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	33.0	70.89
DMSO	75.33	161.82
DMSO:PBS (pH 7.2) (1:1)	0.3	0.64

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.15 mL	10.74 mL	21.48 mL
5 mM	0.43 mL	2.15 mL	4.30 mL
10 mM	0.21 mL	1.07 mL	2.15 mL
50 mM	0.04 mL	0.21 mL	0.43 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

MRT-10 is a seven-transmembrane receptor smoothed (Smo) antagonist with an IC₅₀ of 0.65 μM.

In vitro activity

TBD

In vivo activity

TBD

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Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.