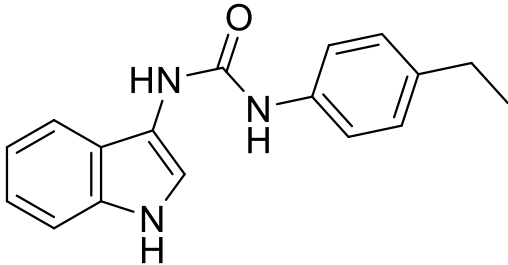


Product data sheet



MedKoo Cat#: 584647 Name: H 151 CAS: 941987-60-6 Chemical Formula: C ₁₇ H ₁₇ N ₃ O Exact Mass: 279.1372 Molecular Weight: 279.343		
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:

H 151 is a STING antagonist that covalently binds STING at Cys91, blocking palmitoylation and preventing assembly of STING clusters.

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	30.0	107.39
DMSO	36.30	129.93
DMSO:PBS (pH 7.2) (1:2)	0.3	1.07
Ethanol	10.66	38.15

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.58 mL	17.90 mL	35.80 mL
5 mM	0.72 mL	3.58 mL	7.16 mL
10 mM	0.36 mL	1.79 mL	3.58 mL
50 mM	0.07 mL	0.36 mL	0.72 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

1. Gong W, Lu L, Zhou Y, Liu J, Ma H, Fu L, Huang S, Zhang Y, Zhang A, Jia Z. The novel STING antagonist H151 ameliorates cisplatin-induced acute kidney injury and mitochondrial dysfunction. Am J Physiol Renal Physiol. 2021 Apr 1;320(4):F608-F616. doi: 10.1152/ajprenal.00554.2020. Epub 2021 Feb 22. PMID: 33615891.

7. Bioactivity

Biological target:

H-151 is a potent, selective and covalent antagonist of STING that has noteworthy inhibitory activity both in cells and in vivo. H-151 reduces TBK1 phosphorylation and suppresses STING palmitoylation.

In vitro activity

Product data sheet



TBD

In vivo activity

Kidney tissues from cisplatin-treated mice showed obvious apoptotic tubular cells stained with TUNEL, while H151 treatment reduced the number of TUNEL-positive cells (Fig. 4, A and B). These data were consistent with the decreased level of cleaved caspase-3 in kidney tissues from the H151-treated group (Fig. 4, C and D), suggesting that H151 ameliorated cisplatin-induced renal tubular cell death in mice.

Reference: Am J Physiol Renal Physiol. 2021 Apr 1;320(4):F608-F616. <https://pubmed.ncbi.nlm.nih.gov/33615891/>

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.