

# Product data sheet



MedKoo Cat#: 563591 Name: INH6 CAS: 1001753-24-7 Chemical Formula: C <sub>19</sub> H <sub>18</sub> N <sub>2</sub> OS Exact Mass: 322.114 Molecular Weight: 322.426	
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:

INH6 is a cell-permeable Hec1/Nek2 Mitotic Pathway Inhibitor.

## 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	93.04
DMF:PBS (pH 7.2) (1:2)	0.33	1.02
DMSO	42.0	130.26
Ethanol	6.0	18.61

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.10 mL	15.51 mL	31.02 mL
5 mM	0.62 mL	3.10 mL	6.20 mL
10 mM	0.31 mL	1.55 mL	3.10 mL
50 mM	0.06 mL	0.31 mL	0.62 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

1. Rivera-Rivera Y, Marina M, Jusino S, Lee M, Velázquez JV, Chardón-Colón C, Vargas G, Padmanabhan J, Chellappan SP, Saavedra HI. The Nek2 centrosome-mitotic kinase contributes to the mesenchymal state, cell invasion, and migration of triple-negative breast cancer cells. *Sci Rep.* 2021 Apr 27;11(1):9016. doi: 10.1038/s41598-021-88512-0. PMID: 33907253; PMCID: PMC8079711.

In vivo study

TBD

## 7. Bioactivity

Biological target:

INH6 is a potent Nek2/Hec1 inhibitor; inhibits the growth of HeLa cells with an IC<sub>50</sub> of 2.4 μM.

In vitro activity

In MDA-MB-231 cells, Nek2 inhibition by INH6 reduced the β-catenin and Slug mRNA levels compared with control (Fig. 6a).

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Reference: Sci Rep. 2021 Apr 27;11(1):9016. <https://pubmed.ncbi.nlm.nih.gov/33907253/>

In vivo activity

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TBD

*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.*