

Product data sheet



MedKoo Cat#: 407436 Name: ISCK03 CAS: 945526-43-2 Chemical Formula: C ₁₉ H ₂₁ N ₃ O ₂ S Exact Mass: 355.1354 Molecular Weight: 355.456		
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:

ISCK03 is a potent c-kit inhibitor. ISCK03 inhibits SCF/c-kit signaling in 501mel human melanoma cells and abolishes melanin production in mice and brownish guinea pigs. ISCK03 also inhibited p44/42 ERK mitogen-activated protein kinase (MAPK) phosphorylation, which is known to be involved in SCF/c-kit downstream signaling. ISCK03 might be used as skin-whitening agents.

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	84.40
DMF:PBS (pH 7.2) (1:5)	0.2	0.56
DMSO	31.5	88.62
Ethanol	2.0	5.63

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.81 mL	14.07 mL	28.13 mL
5 mM	0.56 mL	2.81 mL	5.63 mL
10 mM	0.28 mL	1.41 mL	2.81 mL
50 mM	0.06 mL	0.28 mL	0.56 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

- Hirano T, Tsuruda T, Tanaka Y, Harada H, Yamazaki T, Ishida A. Long noncoding RNA CCDC26 as a modulator of transcriptional switching between fetal and embryonic globins. *Biochim Biophys Acta Mol Cell Res.* 2021 Mar;1868(3):118931. doi: 10.1016/j.bbamcr.2020.118931. Epub 2020 Dec 17. PMID: 33340546.
- Ma J, Liu X, Chen H, Abbas MK, Yang L, Sun H, Sun T, Wu B, Yang S, Zhou D. c-KIT-ERK1/2 signaling activated ELK1 and upregulated carcinoembryonic antigen expression to promote colorectal cancer progression. *Cancer Sci.* 2021 Feb;112(2):655-667. doi: 10.1111/cas.14750. Epub 2020 Dec 19. PMID: 33247506; PMCID: PMC7894012.

In vivo study

TBD

7. Bioactivity

Biological target:

Product data sheet



ISCK03 is a specific SCF/c-Kit inhibitor.

In vitro activity

The KIT inhibitor ISCK03 suppressed the production of hemoglobin in K562 cells but did not affect transcription of globin genes.

Reference: Biochim Biophys Acta Mol Cell Res. 2021 Mar;1868(3):118931. <https://pubmed.ncbi.nlm.nih.gov/33340546/>

In vivo activity

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.