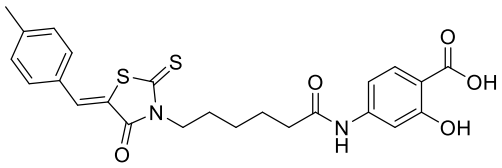
Product data sheet

MedKoo Cat#: 525607 Name: F1063-0967 CAS#: 613225-56-2 Chemical Formula: $C_{24}H_{24}N_2O_5S_2$ Exact Mass: 484.1127 Molecular Weight: 484.585	
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:
F1063-0967 is a novel inhibitor of dual-specificity phosphatase 26 (DUSP26), inducing apoptosis in IMR-32 cell line.

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
DMSO	100.0	206.36

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.06 mL	10.32 mL	20.64 mL
5 mM	0.41 mL	2.06 mL	4.13 mL
10 mM	0.21 mL	1.03 mL	2.06 mL
50 mM	0.04 mL	0.21 mL	0.41 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. Ren JX, Cheng Z, Huang YX, Zhao JF, Guo P, Zou ZM, Xie Y. Identification of novel dual-specificity phosphatase 26 inhibitors by a hybrid virtual screening approach based on pharmacophore and molecular docking. Biomed Pharmacother. 2017 May;89:376-385. doi: 10.1016/j.biopha.2017.02.064. Epub 2017 Feb 27. PMID: 28249240.

In vivo study

TBD

7. Bioactivity
Biological target:

F1063-0967 is a Dual-specificity phosphatase 26 (DUSP26) inhibitor with an IC50 of 11.62 μM.

In vitro activity

The inhibitory activity of F1063-0967 against DUSP26 is higher than that of NCS87877 (IC50 value: 16.67±2.89μM), but lower than that of ethyl-3, 4-dephostatin (IC50 value: 6.8±0.41μM). MTT assay results revealed that F1063-0967 can induce apoptosis in IMR-32 cell line with an IC50 value of 4.13μM.

Reference: Biomed Pharmacother. 2017 May;89:376-385. https://pubmed.ncbi.nlm.nih.gov/28249240/

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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.