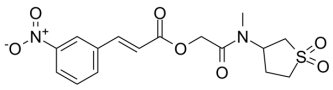
CID 5951923

Cat. No.:	HY-W011044
CAS No.:	749872-43-3
Molecular Formula:	$C_{16}H_{18}N_2O_7S$
Molecular Weight:	382.39
Target:	KLF
Pathway:	MAPK/ERK Pathway
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (26.15 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.6151 mL	13.0757 mL	26.1513 mL
5 mM	0.5230 mL	2.6151 mL	5.2303 mL
10 mM	0.2615 mL	1.3076 mL	2.6151 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CID 5951923 is a potent inhibitor of Krüppel-like factor 5 (KLF5), with an IC_{50} of 603 nM. CID 5951923 can inhibit proliferation of cancer cells in vitro[1].

IC_{50} & Target

IC50: 603 nM (KLF5)[1]

In Vitro

CID 5951923 (1 nM-100 μM; 48 h) inhibits proliferation of DLD-1 cells in a dose-dependent manner[1].
CID 5951923 (10 μM; 24 h) significantly decreases endogenous KLF5 levels in the DLD-1 cells, increases phosphorylation levels of pEGFFpY^{1068}, and downregulated EGR1[1].
CID 5951923 (10 μM) inhibits proliferation of cancer cell lines mainly in highly express KLF5 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	DLD-1 and IEC-6 cells
Concentration:	0.001, 0.01, 0.1, 1, 10, 100 μM

Incubation Time:	48 h
Result:	Inhibited proliferation of DLD-1 cells with an IC_{50} of 1.6 μM.

REFERENCES

[1]. Bialkowska AB, et, al. Identification of small-molecule inhibitors of the colorectal cancer oncogene Krüppel-like factor 5 expression by ultrahigh-throughput screening. Mol Cancer Ther. 2011 Nov; 10(11): 2043-51.

Caution: Product has not been fully validated for medical applications. For research use only.

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