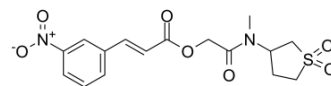


CID 5951923

Cat. No.:	HY-W011044
CAS No.:	749872-43-3
Molecular Formula:	C ₁₆ H ₁₈ N ₂ O ₇ S
Molecular Weight:	382.39
Target:	KLF
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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] .								
IC₅₀ & Target	IC ₅₀ : 603 nM (KLF5) ^[1]								
In Vitro	<p>CID 5951923 (1 nM-100 μM; 48 h) inhibits proliferation of DLD-1 cells in a dose-dependent manner^[1].</p> <p>CID 5951923 (10 μM; 24 h) significantly decreases endogenous KLF5 levels in the DLD-1 cells, increases phosphorylation levels of pEGFFpY¹⁰⁶⁸, and downregulated EGR1^[1].</p> <p>CID 5951923 (10 μM) inhibits proliferation of cancer cell lines mainly in highly express KLF5 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>DLD-1 and IEC-6 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.001, 0.01, 0.1, 1, 10, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited proliferation of DLD-1 cells with an IC₅₀ of 1.6 μM.</td> </tr> </table>	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.
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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