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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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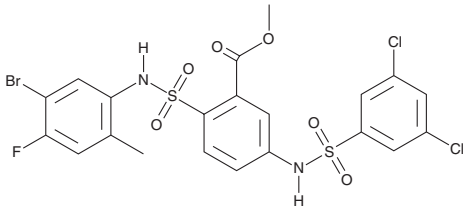
PRODUCT INFORMATION

MDL 800

Item No. 35528

CAS Registry No.: 2275619-53-7
Formal Name: 2-[[(5-bromo-4-fluoro-2-methylphenyl)amino]sulfonyl]-5-[[(3,5-dichlorophenyl)sulfonyl]amino]-benzoic acid, methyl ester
MF: $C_{21}H_{16}BrCl_2FN_2O_6S_2$
FW: 626.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MDL 800 is supplied as a solid. A stock solution may be made by dissolving the MDL 800 in the solvent of choice, which should be purged with an inert gas. MDL 800 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of MDL 800 in these solvents is approximately 1 and 10 mg/ml, respectively.

Description

MDL 800 is an allosteric activator of sirtuin 6 (SIRT6).[1] It selectively activates SIRT6 deacetylase activity over SIRT1-5 and -7 and histone deacetylase 1 (HDAC1) and HDAC2-11 deacetylase activity in cell-free assays at 100 µM. It induces histone deacetylation (IC_{50} = 23.3 µM) in, and reduces proliferation of, BEL-7405 hepatocellular carcinoma (HCC) cells (EC_{50} = 90.4 µM). MDL 800 (0.1-5 µM) inhibits TNF-α release induced by oxygen and glucose deprivation (OGD) in primary mouse microglia.[2] *In vivo*, MDL 800 (50, 100, and 150 mg/kg) reduces tumor weight and volume in a BEL-7405 HCC mouse xenograft model.[1]

References

1. Huang, Z., Zhao, J., Deng, W., *et al.* Identification of a cellularly active SIRT6 allosteric activator. *Nat. Chem. Biol.* **14(12)**, 1118-1126 (2018).
2. He, T., Shang, J., Gao, C., *et al.* A novel SIRT6 activator ameliorates neuroinflammation and ischemic brain injury *via* EZH2/FOXC1 axis. *Acta Pharm. Sin. B* **11(3)**, 708-726 (2021).

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