
Product Data Sheet

Product Name: DC-5163
Cat. No.: GC39369

Chemical Properties

Cas. No. 897771-47-0

SMILES S=C(N1CCN(CC2=CC=CC=C2)C1)NC3=CC=C(OC)C(Cl)=C3

Formula $C_{18}H_{20}ClN_3OS$ M.Wt 361.89

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

DC-5163 is a potent glyceraldehyde-3-phosphate dehydrogenase (GAPDH) inhibitor with an IC_{50} of 176.3 nM and a K_d of 3.192 μM . DC-5163 can inhibit glycolysis pathway partially. DC-5163 also selectively inhibits cancer cell proliferation and induces apoptosis[1].

[1]. Li T, et al. Discovery of novel glyceraldehyde-3-phosphate dehydrogenase inhibitor via docking-based virtual screening. *Bioorg Chem.* 2020 Mar;96:103620.

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

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