
Product Data Sheet

Product Name: F1063-0967

Cat. No.: GC33227

Chemical Properties

Cas. No. 613225-56-2

SMILES OC1=C(C(O)=O)C=CC(NC(CCCCN2C(S/C(C2=O)=C\C3=CC=C(C)C=C3)=S)=O)=C1Formula $C_{24}H_{24}N_2O_5S_2$

M.Wt

484.59

Solubility DMSO : 125 mg/mL (257.95 mM)

Storage

Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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

Protocol

Cell experiment:

The IMR-32 cells are plated in 96-well plates with 1×10^3 cells per well. After the cells are allowed to settle for 24 h, F1063-0967 (0, 10, 1, and 0.1 μ M) is added. An MTT assay is performed. For cell lines HL7702 and SH-SY5Y, the cells are allowed to settle for 24 h, F1063-0967 (10 μ M) is added, then MTT assays are carried out after 72 h[1].

References:

[1]. Ren JX, et al. 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.

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

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Background

F1063-0967 is an inhibitor of dual-specificity phosphatase 26 (DUSP26; $IC_{50} = 11.62 \mu M$).¹ It induces IMR-32 neuroblastoma cell apoptosis ($IC_{50} = 4.13 \mu M$).

1. Ren, J.-X., Cheng, Z., Huang, Y.-X., et al. Identification of novel dual-specificity phosphatase 26 inhibitors by a hybrid virtual screening approach based on pharmacophore and molecular docking. *Biomed. Pharmacother.* 89:376-385 (2017)

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