

Product Data Sheet

Product Name: CDC25B-IN-1

Cat. No.: GC35627

Chemical Properties

Cas. No. 2374831-10-2

SMILES COC1=CC2=CC=CC=C2C(NC3=CC=CC(C(OCC)=O)=C3)=C1

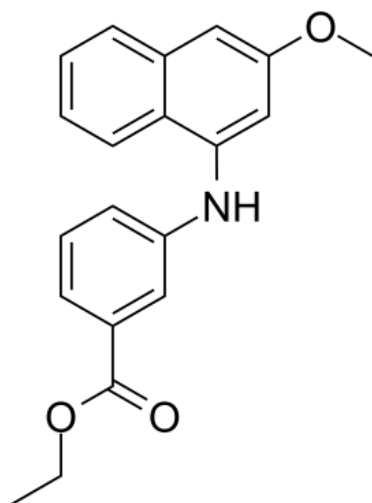
Formula $C_{20}H_{19}NO_3$ M.Wt 321.37

Solubility DMSO: 100 mg/mL (311.17 mM); Storage Store at -20°C
Ethanol: 50 mg/mL (155.58 mM)

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



Background

CDC25B-IN-1 (compound 4a) is a potent inhibitor of cell division cycle 25B (CDC25B) phosphatase, with a K_i of 8.5 μ M. CDC25B-IN-1 potently inhibits cell proliferation and colony formation, causes an increase of the G2/M phase[1]. K_i : 8.5 μ M (CDC25B phosphatase)[1]

[1]. Cerchia C, et al. Discovery of Novel Naphthylphenylketone and Naphthylphenylamine Derivatives as Cell Division Cycle 25B (CDC25B) Phosphatase Inhibitors: Design, Synthesis, Inhibition

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

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Mechanism, and in Vitro Efficacy against Melanoma Cell Lines. J Med Chem. 2019 Aug 8;62(15):7089-7110.

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