

HSD1590

Chemical Properties

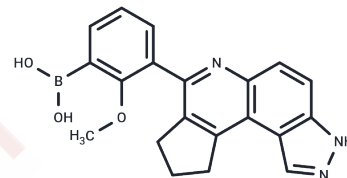
CAS No. : 2379279-96-4

Formula: C₂₀H₁₈BN₃O₃

Molecular Weight: 359.19

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	HSD1590 is a highly effective and potent inhibitor of ROCK1 and ROCK2, with IC ₅₀ values of 1.22 nM and 0.51 nM, respectively. It demonstrates exceptional binding affinity to ROCK, with K _d values below 2 nM. Moreover, HSD1590 showcases minimal cytotoxicity, making it an ideal compound for various applications.
Targets(IC ₅₀)	Others,ROCK
In vitro	HSD1590, when administered at concentrations ranging from 0.5 to 1 μM for 24 hours, significantly reduces migration, an effect not attributed to cellular mortality but to the inhibition of live cell movement, as further confirmed by studies at concentrations of 0.5-10 μM over 12-24 hours. Cell viability assays using MDA-MB-23 cells at these concentrations for the specified durations demonstrate about 80% viability at 12 hours, declining to 63% after 24 hours, underscoring the compound's effectiveness in inhibiting migration without causing substantial cell death.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.784 mL	13.9202 mL	27.8404 mL
5 mM	0.5568 mL	2.784 mL	5.5681 mL
10 mM	0.2784 mL	1.392 mL	2.784 mL
50 mM	0.0557 mL	0.2784 mL	0.5568 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dayal N, et al. Potently inhibiting cancer cell migration with novel 3H-pyrazolo[4,3-f]quinoline boronic acid ROCK inhibitors. Eur J Med Chem. 2019 Oct 15;180:449-456.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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