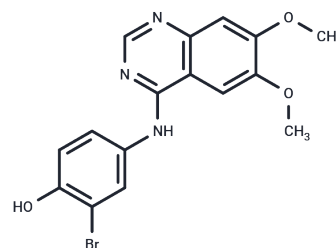


WHI-P154

Chemical Properties

CAS No. : 211555-04-3
Formula: C₁₆H₁₄BrN₃O₃
Molecular Weight: 376.2
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	WHI-P154 (Jak3 inhibitor ii) is a potent JAK3 inhibitor.
Targets(IC50)	Apoptosis,EGFR,VEGFR,JAK,Src
Kinase Assay	Kinase assays: WHI-P154 is tested in kinase assays. The panel of kinases is selected to broadly cover the kinome, providing a good approximation of specificity. For all kinases, recombinant rat (IKK β) or human (all others), full-length or GST-kinase domain fusion proteins, are used. WHI-P154 is inactive (concentration that inhibits response by 50% [IC ₅₀] > 30 μ M) for the following kinases: AKT, AuroraA, cdk2, cdk6, CHK1, FGFR1, GSK3b, IKKb, IKKi, INSR, MAPK1, MAPKAP-K2, MASK, MET, PAK4, PDK1, PKCb, ROCK1, TaoK3, TrkA.
Cell Research	Cells are seeded into a 96-well plate at a density of 2.5 $\times$ 10 ⁴ cells/well and incubated for 36 h at 37 °C before drug exposure. On the day of treatment, culture medium is carefully aspirated from the wells and replaced with fresh medium containing the quinazoline compounds WHI-P154 at concentrations ranging from 0.1 μ M to 250 μ M. Triplicate wells are used for each treatment. The cells are incubated with the compound for 24hours to 36hours at 37 °C in a humidified 5% CO ₂ atmosphere. To each well, 10 μ L of MTT (final concentration, 0.5 mg/mL) is added, and the plate are incubated at 37 °C for 4 h. Than solubilized overnight at 37 °C in a solution containing 10% SDS in 0.01 M HCL. The absorbance of each well is measured in a microplate reader at 570 nm.(Only for Reference)

Solubility Information

Solubility	DMSO: 37.6 mg/mL (100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6582 mL	13.2908 mL	26.5816 mL
5 mM	0.5316 mL	2.6582 mL	5.3163 mL
10 mM	0.2658 mL	1.3291 mL	2.6582 mL
50 mM	0.0532 mL	0.2658 mL	0.5316 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.

Reference

Changelian PS, Blood, 2008, 111(4), 2155-2157.

Narla RK, et al. Clin Cancer Res, 1998, 4(10), 2463-2471.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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