

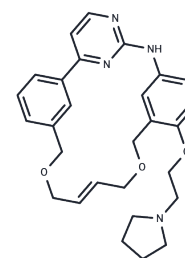
Chemical Properties

Formula: C28H32N4O3

Molecular Weight: 472.58

Appearance: no data available

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



Biological Description

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MnCl₂, 1 mM DTT, 0.1 mM Na₃VO₄, 5 mM β-glycerol phosphate). For FLT3 assays, the reaction contains 2.0 µg/mL FLT3 enzyme, 5 µM of poly(Glu,Tyr) substrate and 4 µM of ATP. For JAK1 assays, the reaction contains 2.5 µg/mL of JAK1 enzyme, 10 µM of poly (Glu,Ala,Tyr) substrate and 1.0 µM of ATP. For JAK2 assays, the reaction contained 0.35 µg/mL of JAK2 enzyme, 10 µM of poly (Glu,Ala,Tyr) substrate and 0.15 µM of ATP. For JAK3 assays, the reaction contained 3.5 µg/mL of JAK3 enzyme, 10 µM of poly (Glu,Ala,Tyr) substrate and 6.0 µM of ATP. For TYK2 assays, the reaction contained 2.5 µg/mL of TYK2 enzyme, 10 µM of poly (Glu,Ala,Tyr) substrate and 0.15 µM of ATP. The reaction is incubated at room temperature for 2 h prior to addition of 13 µL PKLight[®] detection reagent. After 10 min incubation luminescent signals are read on a multi-label plate reader.

Cell Research

Cells are seeded at 30-50% confluency in 96-well plates and are treated with different concentrations of compounds (in triplicate) for 48 h. Cell viability is monitored using the CellTiter-Glo assay.(Only for Reference)

Solubility Information

Solubility

H₂O: < 1 mg/mL (insoluble or slightly soluble),
Ethanol: < 1 mg/mL (insoluble or slightly soluble),
DMSO: 1 mg/mL (2.12 mM),Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.116 mL	10.5802 mL	21.1604 mL
5 mM	0.4232 mL	2.116 mL	4.2321 mL
10 mM	0.2116 mL	1.058 mL	2.116 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 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

Hart S, et al. Leukemia, 2011, 25(11), 1751-1759.

Chen K Y, Krischuns T, Varga L O, et al. A highly sensitive cell-based luciferase assay for high-throughput automated screening of SARS-CoV-2 nsp5/3CLpro inhibitors. Antiviral Research. 2021

Hart S, et al. Blood Cancer J, 2011, 1(11), e44.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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