

6H05

Chemical Properties

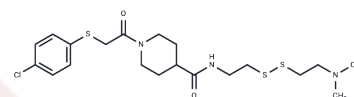
CAS No. : 1469338-01-9

Formula: C₂₀H₃₀ClN₃O₂S₃

Molecular Weight: 476.12

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	6H05 (K-Ras inhibitor) is a selective, allosteric inhibitor of oncogenic mutant K-Ras (G12C).
Targets(IC50)	Raf,Ras,Kras
Kinase Assay	Measurement of NF-κB transcriptional activity: Macrophages RAW 264.7 transfected stably with reporter plasmid of pNF-κB-SEAP-NPT are treated with 1 μg/ml LPS and/or sample for 16 hours. As the reporter, SEAP activity in the cell-free culture media is measured as followed. Single cell-derived stable transfectants are plated in 5 ml of T-25 flask, and the media is decanted 24 h later. At this time, cells are washed twice with phosphate-buffered saline, and incubations are initiated by addition of new media. Chemicals are added to the culture medium after 24 h of incubations. Aliquots (25 ml) of medium from a control or chemical-treated cultures are taken at 0, 3, 20, 24, 48, and 72 h, heated at 65°C for 5 min to eliminate the alkaline phosphatase activity, and used immediately or stored at -20°C. Mixtures consisting of dilution buffer (25 ml), assay buffer (97 ml), culture media (25 ml), and 4-methylumbelliferyl phosphate (MUP, 1 mM, 3 ml) in each well of the 96-well plates are incubated for 60 min in the dark at room temperature. Fluorescence emits the product of the SEAP/MUP is measured at 449 nm using a 96-well plate fluorometer after excitation at 360 nm.

Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1003 mL	10.5016 mL	21.0031 mL
5 mM	0.4201 mL	2.1003 mL	4.2006 mL
10 mM	0.210 mL	1.0502 mL	2.1003 mL
50 mM	0.042 mL	0.210 mL	0.4201 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

Ostrem JM, et al. Nature. 2013, 503(7477), 548-551.

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