

INCB032304

Chemical Properties

CAS No. :	941685-27-4
Formula:	C ₁₅ H ₂₁ N ₅ O ₅
Molecular Weight:	315.446
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	INCB032304 is an important pharmaceutical intermediate. It can be used in the preparation of Ruxolitinib phosphate (I008849), a janus kinase inhibitor, and in the preparation of Barretinib.
Targets(IC50)	Others
Kinase Assay	mTOR complexes kinase assays: HEK-293 cells are freshly lysed in Hepes lysis buffer. Lysate (1-4 mg) is pre-cleared by incubating with 5-20 µL of Protein G-Sepharose conjugated to pre-immune IgG. The lysate extracts are then incubated with 5-20 µL of Protein G-Sepharose conjugated to 5-20 µg of either anti-Rictor or anti-Raptor antibody, or pre-immune IgG. All antibodies are covalently conjugated to Protein G-Sepharose. Immunoprecipitations are carried out for 1 hour at 4 °C on a vibrating platform. The immunoprecipitates are washed four times with Hepes lysis buffer, followed by two washes with Hepes kinase buffer. For Raptor immunoprecipitates used for phosphorylating S6K1, for the initial two wash steps the buffer includes 0.5 M NaCl to ensure optimal kinase activity. GST-Akt1 is isolated from serum-deprived HEK-293 cells incubated with PI-103 (1 µM for 1 hour). GST-S6K1 is purified from serum-deprived HEK-293 cells incubated with rapamycin (0.1 µM for 1 hour). mTOR reactions are initiated by adding 0.1 mM ATP and 10 mM MgCl ₂ in the presence of various concentrations of KU-0063794 and GST-Akt1 (0.5 µg) or GST-S6K1 (0.5 µg). Reaction are carried out for 30 minutes at 30 °C on a vibrating platform and stopped by addition of SDS sample buffer. Reaction mixtures are then filtered through a 0.22-µm-poresize Spin-X filter and samples are subjected to electrophoresis and immunoblot analysis with the indicated antibodies.

Solubility Information

Solubility	DMSO: 55.00 mg/mL (174.36 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	3.1701 mL	15.8504 mL	31.7007 mL
5 mM	0.634 mL	3.1701 mL	6.3401 mL
10 mM	0.317 mL	1.585 mL	3.1701 mL
50 mM	0.0634 mL	0.317 mL	0.634 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.

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