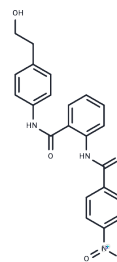


KS176

Chemical Properties

CAS No. : 1253452-78-6
 Formula: C₂₂H₁₉N₃O₅
 Molecular Weight: 405.4
 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	KS176 is a potent and selective inhibitor of the breast cancer resistance protein (BCRP) multidrug transporter, exhibiting no inhibitory activity against P-gp or MRP1.
Targets(IC50)	BCRP, Potassium Channel
Kinase Assay	Phospholipase D activity is quantified using our established method of measuring the formation of [³² P]-radiolabeled PBt. Cellular lipids are extracted and PBt is isolated using our published methods of lipid extraction and thin layer chromatographic separation, respectively. Radioactivity is measured using liquid scintillation counting and quantified as DPM normalized to 10 ⁶ counts in the total cellular lipid extract or as percentage of control (vehicle-treated cells).

Solubility Information

Solubility	DMSO: 55 mg/mL (135.67 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	2.4667 mL	12.3335 mL	24.667 mL
5 mM	0.4933 mL	2.4667 mL	4.9334 mL
10 mM	0.2467 mL	1.2333 mL	2.4667 mL
50 mM	0.0493 mL	0.2467 mL	0.4933 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

Pick A, et al. Specific inhibitors of the breast cancer resistance protein (BCRP). ChemMedChem. 2010 Sep 3;5(9): 1498-505.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481