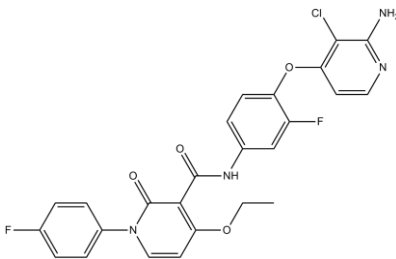


Product Data Sheet

Chemical Properties

Product Name:	BMS-777607	
Cas No.:	1025720-94-8	
M.Wt:	512.89	
Formula:	C ₂₅ H ₁₉ ClF ₂ N ₄ O ₄	
Chemical Name:	N-[4-(2-amino-3-chloropyridin-4-yl)oxy-3-fluorophenyl]-4-ethoxy-1-(4-fluorophenyl)-2-oxopyridine-3-carboxamide	
Canonical SMILES:	<chem>CCOC1=C(C(=O)N(C=C1)C2=CC=C(C(=C2)F)C(=O)NC3=CC(=C(C=C3)OC4=C(C(=NC=C4)N)Cl)F</chem>	
Solubility:	≥25.65mg/mL in DMSO	
Storage:	Store at -20°C	
General tips:	For obtaining a higher solubility , please warm the tube at 37° C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20° C for several months.	
Shopping Condition:	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request	

Biological Activity

Targets : Tyrosine Kinase

Pathways: c-MET

Description:

BMS 777607 is a novel, selective and orally available ATP-competitive MET kinase inhibitor that primarily targets several MET family members, including RON, MET, Tyro-3 and Axl, with half maximal inhibitory concentration IC₅₀ of 1.8 nmol/L, 3.9 nmol/L, 4.3 nmol/L and 1.1 nmol/L respectively. Moreover, at higher concentrations, BMS 777607 has been found to inhibit other protein tyrosine kinases, including Mer, Flt-3, Aurora B, Lck and VEGFR2 with IC₅₀ of 14 nmol/L, 16 nmol/L, 78 nmol/L, 120 nmol/L and 180 nmol/L respectively. In previous studies, BMS 777607 potently inhibited the auto-phosphorylation of c-MET (IC₅₀: 20 nmol/L) leading to impaired

xenograft growth.

Reference:

[1]Dai Y, Siemann DW. BMS-777607, a small-molecule met kinase inhibitor, suppresses hepatocyte growth factor-stimulated prostate cancer metastatic phenotype in vitro. *Mol Cancer Ther.* 2010 Jun;9(6):1554-61. doi: 10.1158/1535-7163.MCT-10-0359. Epub 2010 Jun 1.

[2]Sharma S, Zeng JY, Zhuang CM, Zhou YQ, Yao HP, Hu X, Zhang R, Wang MH. Small-molecule inhibitor BMS-777607 induces breast cancer cell polyploidy with increased resistance to cytotoxic chemotherapy agents. *Mol Cancer Ther.* 2013 May;12(5):725-36. doi: 10.1158/1535-7163.MCT-12-1079. Epub 2013 Mar 6.

Protocol

Cell experiment:

Cell lines	KHT cells
Preparation method	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions	10 μM; 2, 24 and 96 hrs
Applications	In the highly metastatic murine KHT cells, treatment of BMS-777607 (~ 10 μM) for 2 hrs potentially eliminated basal levels of autophosphorylated c-Met.

Animal experiment [3]:

Animal models	Mice bearing KHT xenografts
Dosage form	10 ~ 25 mg/kg; p.o.; q.d.
Applications	In mice bearing KHT xenografts, BMS-777607 (25 mg/kg/day) decreased the number of KHT lung tumor nodules (28.3%), improved the morphological hemorrhage, and significantly impaired the metastatic phenotype, without apparent systemic toxicity.
Other notes	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Reference:

[1]. Dai Y, Bae K, Pampo C, Siemann DW. Impact of the small molecule Met inhibitor BMS-777607 on the metastatic process in a rodent tumor model with constitutive c-Met activation. *Clin Exp Metastasis*. 2012 Mar;29(3):253-61.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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