# PRODUCT INFORMATION

## BMS-777607

*Item No. 18517*

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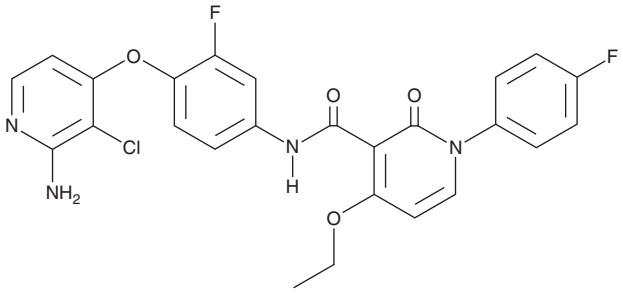
| **CAS Registry No.:** | 1025720-94-8 |
| **Formal Name:** | N-[4-[(2-amino-3-chloro-4-pyridinyl)oxy]-3-fluorophenyl]-4-ethoxy-1-(4-fluorophenyl)-1,2-dihydro-2-oxo-3-pyridinecarboxamide |
| **Synonym:** | BMS-817378 |
| **MF:** | $C_{25}H_{19}ClF_2N_4O_4$ |
| **FW:** | 512.9 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 204, 289 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

BMS-777607 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS-777607 in the solvent of choice, which should be purged with an inert gas. BMS-777607 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of BMS-777607 in these solvents is approximately 5 and 20 mg/ml, respectively.

BMS-777607 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS-777607should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BMS-777607 has a solubility of approximately 0.1 mg/ml in a 1:7 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

BMS-777607 is an inhibitor of the Met kinase family. It inhibits Ron, Met, Tyro-3, and Axl with $IC_{50}$ values of 1.8, 3.9, 4.3, and 1.1 nM, respectively.[1] At higher concentrations it is reported to inhibit Mer, FLT3, Aurora B, Lck, and VEGFR2 ($IC_{50}$s = 14, 16, 78, 120, and 180 nM, respectively).[1] In cancer cells, BMS-777607 induces polyploidy with multiple sets of chromosomes, as well as suppresses metastasis.[1,2] In tumor xenograft models, BMS-777607 at 50 mg/kg/mouse inhibits the growth of tumor cells expressing Met/Ron.[1]

### References


1. Sharma, S., Zeng, J.-Y., Zhuang, C.-M., *et al.* Small-molecule inhibitor BMS-777607 induces breast cancer cell polyploidy with increased resistance to cytotoxic chemotherapy agents. *Mol. Cancer Ther.* **12(5)**, 725-736 (2013).
2. Dai, Y. and Siemann, D.W. BMS-777607, a small-molecule met kinase inhibitor, suppresses hepatocyte growth factor-stimulated prostate cancer metastatic phenotype *in vitro*. *Mol. Cancer Ther.* **9(6)**, 1554-1561 (2010).





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