Product Information

BMS 754807
Item No. 17505

CAS Registry No.: 1001350-96-4
Formal Name: 1-[4-[(5-cyclopentyl-1H-pyrazol-3-yl)amino]pyrrolo[2,1-f][1,2,4]triazin-2-yl]-N-(6-fluoro-3-pyridinyl)-2-methyl-(2S)-2-pyrrolidinecarboxamide

MF: C_{23}H_{24}FN_{9}O
FW: 461.5
Purity: ≥98%

Laboratory Procedures
For long term storage, we suggest that BMS 754807 be stored as supplied at -20°C. It should be stable for at least two years.

BMS 754807 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS 754807 in the solvent of choice. BMS 754807 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of BMS 754807 in these solvents is approximately 30 mg/ml.

BMS 754807 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS 754807 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. BMS 754807 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

BMS 754807 is a reversible, orally bioavailable dual inhibitor of insulin-like growth factor 1 receptor (IGF-1R) and insulin receptor (InsR) tyrosine kinases (IC_{50} = 1.8 and 1.7 nM, respectively). 1,2 It has minimal effect against an array of other tyrosine and serine/threonine kinases. 3 BMS 754807 inhibits cell proliferation or induces apoptosis in a variety of cancer cells in vitro. 2 It inhibits the growth of tumor xenografts in mice and this effect is often enhanced by combination therapy with other chemotherapeutics. 2,4 Predictive biomarkers, including elevated IGF-1R expression, for effectiveness of BMS 754807 have been delineated. 5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/17505

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