

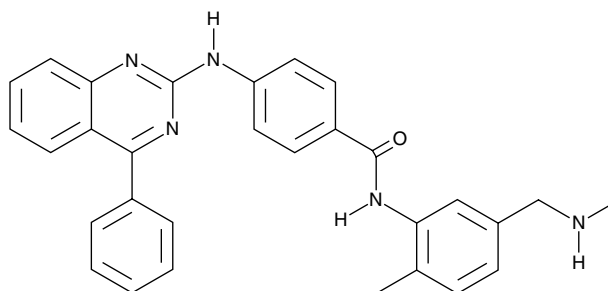
Product Information



BMS 833923

Item No. 16240

CAS Registry No.: 1059734-66-5
Formal Name: N-[2-methyl-5-[(methylamino)methyl]phenyl]-4-[(4-phenyl-2-quinazoliny)amino]-benzamide
Synonym: XL 139
MF: C₃₀H₂₇N₅O
FW: 473.6
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 315 nm



Laboratory Procedures

For long term storage, we suggest that BMS 833923 be stored as supplied at -20°C. It should be stable for at least two years.

BMS 833923 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS 833923 in the solvent of choice. BMS 833923 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BMS 833923 in ethanol and DMF is approximately 30 mg/ml and approximately 25 mg/ml in DMSO.

BMS 833923 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS 833923 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. BMS 833923 has a solubility of approximately 0.1 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Smoothed (Smo) is a cell surface receptor that, with Patched, mediates sonic hedgehog (Shh) signaling to regulate gene expression through the Gli transcription factors.¹ BMS 833923 is an orally bioavailable inhibitor of Smo.^{2,3} It blocks binding of BODIPY cyclopamine (IC₅₀ = 21 nM) and inhibits Gli activation in cell lines that express wild-type Smo or activated mutant forms of Smo (IC₅₀s = 6-35 nM). BMS 833923 robustly inhibits Shh pathway activity and prevents tumor growth in medulloblastoma and pancreatic carcinoma xenograft models.

References

1. Ruiz-Gómez, A., Molnar, C., Holguín, H., *et al.* The cell biology of Smo signalling and its relationships with GPCRs. *Biochim. Biophys. Acta* **1768**(4), 901-912 (2007).
2. Sandhiya, S., Melvin, G., Kumar, S.S., *et al.* The dawn of hedgehog inhibitors: Vismodegib. *J. Pharmacol. Pharmacother.* **4**(1), 4-7 (2013).
3. Lin, T.L. and Matsui, W. Hedgehog pathway as a drug target: Smoothed inhibitors in development. *OncoTargets and Therapy* **5**, 47-58 (2012).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16240

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com