PRODUCT INFORMATION

BMS-911543
Item No. 21088

CAS Registry No.: 1271022-90-2
Formal Name: N,N-dicyclopropyl-4-[(1,5-dimethyl-1H-pyrazol-3-yl)amino]-6-ethyl-1,6-dihydro-1-methyl-imidazo[4,5-d]pyrrolo[2,3-b]pyridine-7-carboxamide
MF: C₂₃H₂₈N₈O
FW: 432.5
Purity: ≥98%
UV/Vis.: λmax 227, 280, 342 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

BMS-911543 is supplied as a crystalline solid. A stock solution may be made by dissolving the BMS-911543 in the solvent of choice. BMS-911543 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-911543 in these solvents is approximately 1, 15, and 30 mg/ml, respectively.

BMS-911543 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BMS-911543 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. BMS-911543 has a solubility of approximately 0.5 mg/ml in a 1:1 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-911543 is a potent, selective ATP-competitive inhibitor of Janus kinase 2 (JAK2) that exhibits IC₅₀ values of 1, 356, 73, and 66 nM for JAK2, JAK1, JAK3, and TYK2, respectively.¹ It exhibits antiproliferative activity in a variety of cell lines engineered to express the JAK₂^{V617F} activating mutation (IC₅₀ = 60-70 nM).¹² BMS-911543 exhibited limited activity in a mouse model of JAK₂^{V617F}-driven myeloproliferative neoplasm.³

References