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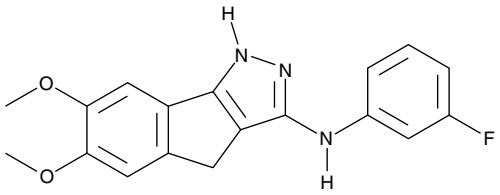
Product Information

JNJ-10198409

Item No. 10008131

CAS Registry No.: 627518-40-5
Formal Name: N-(3-fluorophenyl)-1,4-dihydro-6,7-dimethoxy-indeno[1,2-c]pyrazol-3-amine
MF: $C_{18}H_{16}FN_3O_2$
FW: 325.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 267, 302 nm



Laboratory Procedures

For long term storage, we suggest that JNJ-10198409 be stored as supplied at -20°C. It should be stable for at least two years.

JNJ-10198409 is supplied as a crystalline solid. A stock solution may be made by dissolving the JNJ-10198409 in an organic solvent purged with an inert gas. JNJ-10198409 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of JNJ-10198409 in ethanol is approximately 10 mg/ml and is approximately 30 mg/ml in DMSO and DMF.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Inhibition of the tyrosine kinase activity of growth factor receptors such as the platelet-derived growth factor (PDGF-BB) receptor can have potent antiangiogenic and antiproliferative activity.[1] JNJ-10198409 is a small molecule inhibitor of PDGF-BB tyrosine kinase with an IC_{50} value of 4.2 nM when tested in human coronary artery smooth muscle cells.[2] JNJ-10198409 is a competitive antagonist of the ATP binding and hydrolysis at this receptor, resulting in a dose dependent inhibition of tumor growth and angiogenesis.

References

1. Battegay, E.J., Rupp, J., Iruela-Arispe, L., *et al.* PDGF-BB modulates endothelial proliferation and angiogenesis *in vitro via* PDGF β-receptors. *J. Cell Biol.* **125(4)**, 917-928 (1994).
2. Ho, C.Y., Ludovici, D.W., Maharoof, U.S.M., *et al.* (6,7-Dimethoxy-2,4-dihydroindeno[1,2-c]pyrazol-3-yl) phenylamines: Platelet-derived growth factor receptor tyrosine kinase inhibitors with broad antiproliferative activity against tumor cells. *J. Med. Chem.* **48**, 8163-8173 (2005).

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