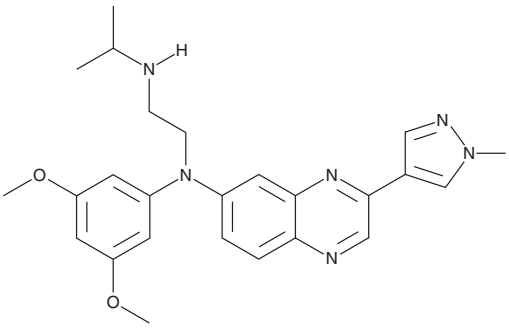
PRODUCT INFORMATION

JNJ-42756493

Item No. 21813

CAS Registry No.:	1346242-81-6
Formal Name:	N^1-(3,5-dimethoxyphenyl)-N^2-(1-methylethyl)-N^1-[3-(1-methyl-1H-pyrazol-4-yl)-6-quinoxalinyl]-1,2-ethanediamine
Synonym:	Erdafitinib
MF:	$C_{25}H_{30}N_6O_2$
FW:	446.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 224, 257, 297, 411 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

JNJ-42756493 is supplied as a crystalline solid. A stock solution may be made by dissolving the JNJ-42756493 in the solvent of choice, which should be purged with an inert gas. JNJ-42756493 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of JNJ-42756493 in these solvents is approximately 1, 10, and 20 mg/ml, respectively.

JNJ-42756493 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JNJ-42756493 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. JNJ-42756493 has a solubility of approximately 0.12 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

JNJ-42756493 is a pan-FGFR inhibitor (IC_{50}s = 1.2, 2.5, 3, and 5.7 nM for FGFR1, -2, -3, and -4, respectively).[1] It is selective for FGFRs over VEGFR2 (IC_{50} = 36.8 nM). JNJ-42756493 inhibits the proliferation of Ba/F3 cells expressing FGFR1, -3, or -4 (IC_{50}s = 22.1, 13.2, and 25 nM, respectively). It reduces tumor growth in a SNU-16 gastric cancer mouse xenograft model when administered at doses of 10 and 30 mg/kg.

Reference

1. Perera, T.P.S., Jovcheva, E., Mevellec, L., *et al.* Discovery and pharmacological characterization of JNJ-42756493 (erdafitinib), a functionally selective small molecule FGFR family inhibitor. *Mol. Cancer Ther.* **16(6)**, 1010-1020 (2017).

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