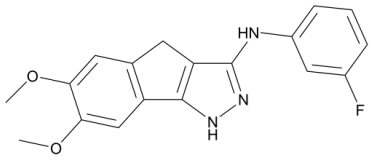
Data Sheet

Product Name:	JNJ-10198409
Cat. No.:	CS-W011982
CAS No.:	627518-40-5
Molecular Formula:	$C_{18}H_{16}FN_3O_2$
Molecular Weight:	325.34
Target:	PDGFR
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	DMSO : 83.33 mg/mL (256.13 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

JNJ-10198409 is a relatively selective, orally active, and ATP competitive **PDGF-RTK** (platelet-derived growth factor receptor tyrosine kinase) inhibitor (**IC_{50}**=2 nM). It is a dual-mechanism, antiangiogenic, and tumor cell antiproliferative agent. JNJ-10198409 has good activity against **PDGFR-β** kinase (**IC_{50}**=4.2 nM) and **PDGFR-α** kinase (**IC_{50}**=45 nM)[1][2]. **In Vitro:** JNJ-10198409 has potent antiproliferative activity in six of eight human tumor cell lines (IC_{50}<0.033 μM) and is a potent inhibitor of the c-Abl kinase (IC_{50}=22 nM)[1][2].

References:

[1]. D'Andrea MR, et al. Validation of in vivo pharmacodynamic activity of a novel PDGF receptor tyrosine kinase inhibitor using immunohistochemistry and quantitative image analysis. Mol Cancer Ther. 2005 Aug;4(8):1198-204.

[2]. Ho CY, 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. 2005 Dec 29;48(26):8163-73.

CAIndexNames:

Indeno[1,2-c]pyrazol-3-amine, N-(3-fluorophenyl)-1,4-dihydro-6,7-dimethoxy-

SMILES:

COC1=CC2=C(C=C1OC)CC3=C2NN=C3NC4=CC=CC(F)=C4

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