

Product Information

p38-MAPK inhibitor PD 169316, Purity \geq 98%

Cat. No.: X23-10-ZQ904

Size: 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD12405019

CAS Number: 152121-53-4

Compound CID: 4712

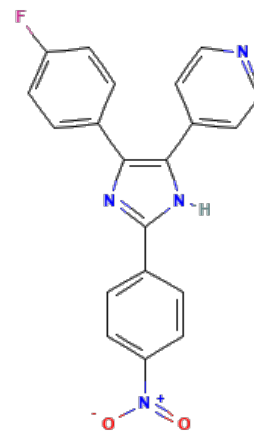
Synonym: 152121-53-4; PD 169316; PD-169316; PD169316;

4-(4-(4-Fluorophenyl)-2-(4-nitrophenyl)-1*H*-imidazol-5-yl)pyridine;

4-[4-(4-Fluorophenyl)-2-(4-nitrophenyl)-1*H*-imidazol-5-yl]pyridine;

4-(4-Fluorophenyl)-2-(4-nitrophenyl)-5-(4-pyridyl)-1*H*-imidazole; p38-MAPK inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	PD 169316, soluble in DMSO and insoluble in ethanol and water, targets the ATP-binding site of the kinase, thereby preventing phosphorylation of downstream substrates.
Molecular Weight	360.3
Molecular Formula	C ₂₀ H ₁₃ FN ₄ O ₂
IUPAC Name	4-[4-(4-Fluorophenyl)-2-(4-nitrophenyl)-1 <i>H</i> -imidazol-5-yl]pyridine
InChI	InChI=1S/C20H13FN4O2/c21-16-5-1-13(2-6-16)18-19(14-9-11-22-12-10-14)24-20(23-18)15-3-7-17(8-4-15)25(26)27/h1-12H,(H,23,24)
InChI Key	BGIYKDUASORTBB-UHFFFAOYSA-N
Canonical SMILES	C1=CC(=CC=C1C2=NC(=C(N2)C3=CC=NC=C3)C4=CC=C(C=C4)F)[N+](=O)[O-]
Form	Lyophilized powder
Purity	\geq 98%
Solubility	DMSO: 12 mg/mL (33.3 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	PD 169316 is used to explore the selective inhibition of p38 MAP kinase and its role in cytokine production and inflammation.
Storage	Store at -20°C.

