PF-00956980

Cat. No.: HY-108342

CAS No.: 1262832-74-5

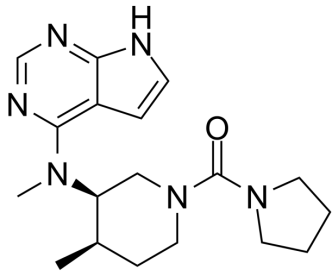
Molecular Formula: $C_{18}H_{26}N_6O$

Molecular Weight: 342.44

Target: JAK

Pathway: Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PF-00956980 is a reversible pan-JAK inhibitor with IC_{50} values of 2.2, 23.1 and 59.9 μM for JAK1, JAK2 and JAK3, respectively. PF-00956980 can be used in the research of lung and skin inflammatory diseases[1].

IC_{50} & Target			
	JAK1 2.2 μM (IC_{50})	JAK2 23.1 μM (IC_{50})	JAK3 59.9 μM (IC_{50})

In Vivo

The pharmacokinetic parameters of PF-00956980(compound 2) in rat or dog

Spesies	Dose (mg/kg)	Cl (mL/min/Kg)	Clunbound (mL/min/Kg)	V_{ss} (L/Kg)	Terminal $T_{1/2}$ (h)	Oral Bioavailability
Rat i.v.	0.5	48	>48,000	0.8	2.1	-
Rat p.o.	1	-	-	-	-	<5%
Dog i.v.	0.1	18	>18,000	1.0	2.0	-

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Peter Jones, et al. Design and Synthesis of a Pan-Janus Kinase Inhibitor Clinical Candidate (PF-06263276) Suitable for Inhaled and Topical Delivery for the Treatment of Inflammatory Diseases of the Lungs and Skin. J Med Chem. 2017 Jan 26;60(2):767-786.

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