

Product Name : p38 MAPK-IN-4

Synonyms : p38alpha-IN-4; p38alpha IN 4; p38alphaIN4; p38alpha inhibitor 4; p38alpha-inhibitor-4; p38 MAP Kinase Inhibitor XI;

Cat No. : M10052

CAS Number : 1006378-90-0

Molecular Formula : C₂₁H₁₅F₂N₂O

Formula Weight : 349.35

Chemical Name : 1,7-Naphthyridine, 4-(2,4-difluorophenyl)-8-(2-methylphenyl)-, 7-oxide

Description : p38 MAPK-IN-4 is a potent and selective inhibitor of p38 MAPK with IC₅₀ of 68 nM for p38α, inhibits LPS-induced TNFα release in THP-1 cells with IC₅₀ of 187 nM; displays no significant activity against a panel of 54 tyrosine kinases and serine/threonine kinases; dose-dependently inhibits TNFα production with an ED₅₀ of 0.5 mg/kg in rat-LPS induced TNFα model, dose-dependently inhibits arthritis progression with ED₅₀ <1 mg/kg, demonstrates a superior efficacy of 4 versus other clinically tested reference compounds like BIRB-796 and VX-745.

Pathway : MAPK/ERK Signaling

Target : p38 MAPK

Receptor : p38 MAPK

Solubility : 10 mM in DMSO

SMILES : [O-][N+]1=C(C2=CC=CC=C2C)C3=NC=CC(C4=CC=C(F)C=C4F)=C3C=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lumeras W, et al. J Med Chem. 2011 Nov 24;54(22):7899-910.

