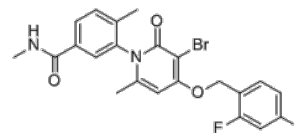


Product Name : PH-797804
Cat. No. : PC-21598
CAS No. : 586379-66-0
Molecular Formula : C₂₂H₁₉BrF₂N₂O₃
Molecular Weight : 477.31
Target : p38 MAPK
Solubility : 10 mM in DMSO



Biological Activity

PH-797804 is a potent, highly selective and ATP-competitive **p38α/p38β** MAPK inhibitor with IC₅₀ of 2.3 nM (p38α). PH-797804 exhibits significant inhibition of TNFα release in hPBMC with IC₅₀ of 3.4 nM. PH-797804 is a readily reversible inhibitor of the alpha isoform of human p38 MAP kinase with K_i of 5.8 nM. PH-797804 blocks inflammation-induced production of cytokines and proinflammatory mediators, such as prostaglandin E(2) in human monocyte and synovial fibroblast cell systems. PH-797804 effectively inhibits acute inflammatory responses induced by systemically administered endotoxin in both rat and cynomolgus monkeys. PH-797804 demonstrates robust anti-inflammatory activity in chronic disease models, significantly reducing both joint inflammation and associated bone loss in streptococcal cell wall-induced arthritis in rats and mouse collagen-induced arthritis.

References

Selness SR, et al. *Bioorg Med Chem Lett*. 2011 Jul 1;21(13):4066-71.
Hope HR, et al. *J Pharmacol Exp Ther*. 2009 Dec;331(3):882-95.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com