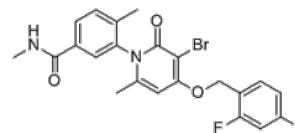


**Product Name** : PH797804  
**Cat. No.** : PC-21598  
**CAS No.** : 586379-66-0  
**Molecular Formula** : C<sub>22</sub>H<sub>19</sub>BrF<sub>2</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 477.31  
**Target** : p38 MAPK  
**Solubility** : 10 mM in DMSO



## Biological Activity

PH-797804 is a potent, highly selective and ATP-competitive p38 $\alpha$ /p38 $\beta$  MAPK inhibitor with IC<sub>50</sub> of 2.3 nM (p38 $\alpha$ ).

PH-797804 exhibits significant inhibition of TNF $\alpha$  release in hPBMC with IC<sub>50</sub> of 3.4 nM.

PH-797804 is a readily reversible inhibitor of the alpha isoform of human p38 MAP kinase with K<sub>i</sub> 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