

Product Data Sheet

Product Name: PH-797804

Cat. No.: GC10261

Chemical Properties

Cas. No. 586379-66-0

Chemical Name 3-[3-bromo-4-[(2,4-difluorophenyl)methoxy]-6-methyl-2-oxopyridin-1-yl]-N,4-dimethylbenzamide

SMILES CC1=C(C=C(C=C1)C(=O)NC)N2C(=CC(=C(C2=O)Br)OCC3=C(C=C(C=C3)F)F)C

Formula $C_{22}H_{19}BrF_2N_2O_3$

M.Wt 477.3

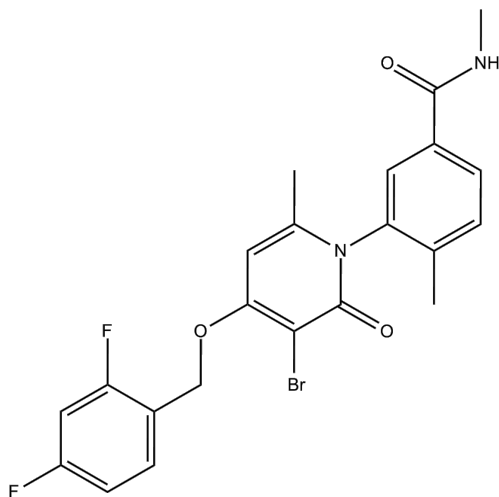
Solubility $\geq 23.85\text{mg/mL}$ in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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PH-797804 is a novel, potent, ATP-competitive and reversible inhibitor of human p38 MAP kinase. It specifically inhibits p38 α with IC₅₀ value of 26 nM and K_i value of 5.8 nM.

PH-797804 inhibits LPS induced TNF- α and IL-1 β production in monocytes with a concentration-dependently manner. PH-797804 blocks RANKL and M-CSF induced osteoclast formation in primary rat bone marrow cells.

Orally administered PH-797804 suppresses TNF- α level in a dose-dependent manner in LPS induced Lewis rats and also in cynomolgus monkeys. Additionally, PH-797804 has been shown to inhibit chronic inflammation in arthritis models induced by mouse collagen-induced or rat streptococcal cell wall (SCW) extract.

References:

[1] Hope HR1, Anderson GD, Burnette BL, Compton RP, Devraj RV, Hirsch JL, Keith RH, Li X, Mbalaviele G, Messing DM, Saabye MJ, Schindler JF, Selness SR, Stillwell LI, Webb EG, Zhang J, Monahan JB. Anti-inflammatory properties of a novel N-phenyl pyridinone inhibitor of p38 mitogen-activated protein kinase: preclinical-to-clinical translation. J Pharmacol Exp Ther. 2009 Dec;331(3):882-95.

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