Product Data Sheet

Product Name: SKF 86002 dihydrochloride
Cat. No.: GC17725

Chemical Properties

Cas. No.	116339-68-5		
Chemical Name	6-(4-fluorophenyl)-5-(pyridin-4-yl)-2,3-dihydroimidazo[2,1-b]thiazole dihydrochloride		
SMILES	FC1=CC=C(C(N=C2N3CCS2)=C3C4=CC=NC=C4)C=C1.Cl.Cl		
Formula	$C_{16}H_{12}FN_3S.2HCl$	M.Wt	370.27
Solubility	<18.51mg/ml in Water	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	SKF 86002 dihydrochloride		

Background

SKF-86002 is a potent inhibitor of p38 MAP kinase wit IC50 of 0.5-1 uM; inhibits LPS-induced IL-1 and TNF-α production in human monocytes (IC50 = 1 μM).IC50 value:Target: p38 MAPK inhibitorin vitro: SKF-86002 inhibited prostaglandin H2 (PGH2) synthase activity (IC50 120 microM) as well as prostanoid production by rat basophilic leukemia (RBL-1) cells (IC50 70 microM) and its sonicate (IC50 100 microM) and human monocytes (IC50 1 microM). In addition, SK&F 86002 inhibited the generation of dihydroxyeicosatetraenoic acid (diHETE) and 5-hydroxyeicosatetraenoic acid (5-HETE) by a high speed supernatant fraction of RBL-1 cells (IC50 10 microM) [1]. differentiation of HL-60 cells toward the neutrophil phenotype resulted in a loss in c-Jun NH2-terminal kinase activation with concomitant acquisition of formylmethionylleucylphenylalanine-stimulatable and stress-inducible p38 MAPK activity as well as apoptosis blockade by SKF-86002 [2]. SKF-86002 blocked superoxide anion production in response to FMLP and reduced adhesion and chemotaxis in response to PAF or FMLP [3].

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References:
[1]. Griswold DE, et al. SK&F 86002: a structurally novel anti-inflammatory agent that inhibits lipoxygenase- and cyclooxygenase-mediated metabolism of arachidonic acid. Biochem Pharmacol. 1987 Oct 15;36(20):3463-70.
[2]. Frasch SC, et al. p38 mitogen-activated protein kinase-dependent and -independent intracellular signal transduction pathways leading to apoptosis in human neutrophils. J Biol Chem. 1998 Apr 3;273(14):8389-97.
[3]. Nick JA, et al. Common and distinct intracellular signaling pathways in human neutrophils utilized by platelet activating factor and FMLP. J Clin Invest. 1997 Mar 1;99(5):975-86.

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