

PF-04577806 biochemical

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CATALOG #
AAA227444

PRODUCT SYNONYMS

PF-04577806; PF-04577806 biochemical

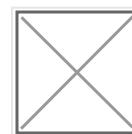
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1072100-81-2
Targets&IC50	PKCalpha:2.4 nM (IC50), PKCdelta:586 nM (IC50), PKCtheta:29.5 nM (IC50), PKCgamma:45.9 nM (IC50), PKCbeta1:8.1 nM (IC50), PKCepsilon:522 nM (IC50), PKCbeta11:6.9 nM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	PF-04577806 (0.001-10 uM; 10 min) inhibits PKC activity in diabetic rat retinal lysates, with IC 50 of 0.18 uM[1]. PF-04577806 (0.12-10 uM; pretreated for 60 min) inhibits phorbol myristate acetate-stimulated phosphorylation of ERK1/2 in Jurkat cells, with an IC 50 of 0.28 uM[1]. PF-04577806 (0.001-10 uM; pretreated for 1 h) inhibits phosphorylation of SHP2 in HEK293 cells, with an IC 50 of 5.8 nM. PF-04577806 concentration-dependently inhibits interleukin 8 release from phorbol myristate acetate-stimulated HEK293 cells, with an IC 50 of 0.12 uM[1]. PF-04577806 (1 uM; 48 h) shows low cytotoxicity against human umbilical vein endothelial cells with remaining cell viability at 100.5% viable[1]. Western Blot Analysis[1]Cell Line: Jurkat T cells Concentration: 0, 0.12, 0.37, 1.11, 3.33, 10.0 uM Incubation Time: Pretreated for 1 hours. Result: Showed a dose-dependent decrease in phospho-ERK1/2 but not total ERK1/2.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
PKH 26, CAS 154214-55-8



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ADDITIONAL INFORMATION

Related Product Information for PF-04577806 biochemical	PF-04577806 is a potent, selective and ATP competitive PKC inhibitor. PF-04577806 shows potent inhibitory activity towards PKCalpha, PKCbeta1, PKCbeta11, PKCgamma, and PKCtheta with IC 50 s of 2.4 nM, 8.1 nM, 6.9 nM, 45.9 nM, and 29.5 nM, respectively. PF-04577806 can reverse retinal vascular leakage in diabetic rats.
References	1. Li P, et al. PKH26 can transfer to host cells in vitro and vivo. Stem Cells Dev. 2013;22(2):340-344. 2. Fischer K, et al. The flow cytometric PKH-26 assay for the determination of T-cell mediated cytotoxic activity. Methods. 2003;31(2):135-142.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

