
Product Data Sheet

Product Name: PF-5006739

Cat. No.: GC36885

Chemical Properties

Cas. No. 1293395-67-1

SMILES NC1=NC=CC(C2=C(C3=CC=C(F)C=C3)N=CN2C4CCN(CC5=NOC=C5)CC4)=N1Formula $C_{22}H_{22}FN_7O$ M.Wt 419.45

Solubility Soluble 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

PF-5006739 is a potent and selective inhibitor of CK1δ/ε with IC50s of 3.9 nM and 17.0 nM, respectively. PF-5006739 is a potential therapeutic agent for a range of psychiatric disorders with low nanomolar in vitro potency for CK1δ/ε and high kinome selectivity. PF-5006739 attenuates opioid drug-seeking behavior in a rodent operant reinstatement model in animals in a dose-dependent manner[1]. PF-5006739 improves glucose tolerance in both diet-induced obesity (DIO) and genetic (ob/ob) mice models of obesity[2]. CK1δ|3.9 nM (IC50)|CK1ε|17.0 nM (IC50)

[1]. Wager TT, et al. Casein kinase 1δ/ε inhibitor PF-5006739 attenuates opioid drug-seeking behavior. ACS Chem Neurosci. 2014 Dec 17;5(12):1253-65. [2]. Cunningham PS, et al. Targeting of the circadian clock via CK1δ/ε to improve glucose homeostasis in obesity. Sci Rep. 2016 Jul 21;6:29983.

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

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