Product datasheet

PF 670462, casein kinase 1epsilon (CK1epsilon) and CK1delta inhibitor ab120985

Overview

Product name
PF 670462, casein kinase 1epsilon (CK1epsilon) and CK1delta inhibitor

Description
Potent, selective casein kinase 1ε (CK1ε) and CK1δ inhibitor

Biological description
Potent, selective casein kinase 1ε (CK1ε) and CK1δ inhibitor (IC₅₀ values are 7.7 and 14 nM for CK1ε and CK1δ, respectively). Shows >300-fold selectivity over CK2 and selectivity over more than 40 other kinases. Alters circadian rhythms in vivo.

Also available in simple stock solutions (ab146728) - add 1 ml of water to get an exact, ready-to-use concentration.

Purity
> 99%

CAS Number
950912-80-8

Chemical structure

![Chemical structure](image)

Properties

Chemical name
4-[1-Cyclohexyl-4-(4-fluorophenyl)-1H-imidazol-5-yl]-2-pyrimidinamine dihydrochloride

Molecular weight
410.32

Molecular formula
C₁₉H₂₀FN₅.2HCl

PubChem identifier
51049607

Storage instructions
Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview
Soluble in water to 100 mM and in DMSO to 100 mM

Handling
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
SMILES  
Cl.Cl.Nc1nccc(n1)c3c(ncn3C2CCCCC2)c4ccc(F)cc4

Source  
Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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