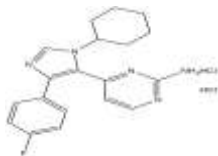


PRODUCT:**PF-670462****ALTERNATE NAME:**4-[1-Cyclohexyl-4-(4-fluorophenyl)-1*H*-imidazol-5-yl]-2-pyrimidinamine dihydrochloride**CATALOG #:**

B2271-5,25

AMOUNT:

5 mg, 25 mg

STRUCTURE:**MOLECULAR FORMULA:**C₁₉H₂₀FN₅·2HCl**MOLECULAR WEIGHT:**

410.32

CAS NUMBER:

950912-80-8

APPEARANCE:

Off-white solid

SOLUBILITY:DMSO (>35 mg/ml) or H₂O (>35 mg/ml)**PURITY:**

≥98% by HPLC

STORAGE:

Store at -20°C. Protect from air and light

DESCRIPTION:

PF-670462 is a potent and selective casein kinase 1 ϵ (CK1 ϵ) and CK1 δ inhibitor (IC₅₀ values are 7.7 and 14 nM respectively) that displays > 30-fold selectivity over 42 other kinases. Inhibits PER protein nuclear translocation (EC₅₀ = 290 nM) causing phase shifts in circadian rhythms and attenuates methamphetamine-stimulated locomotion *in vivo*.

REFERENCES:

Badura, L., et al. (2007). *J. Pharmacol. Exp. Ther.* **322**, 730-738.

HANDLING:

Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

CX-4945(2459)

PF-670462 (B2271)

IC261 (9669)

LH-846 (9423)

TA-01 (B1214)

TA-02 (B1215)

USAGE:**FOR RESEARCH USE ONLY! Not to be used in humans**