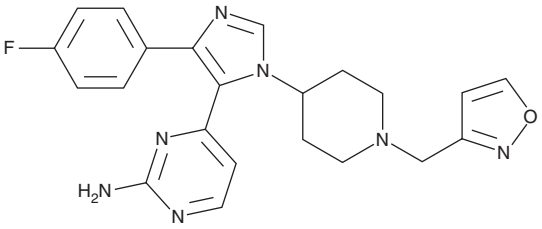
PRODUCT INFORMATION

PF-5006739

Item No. 46620

CAS Registry No.:	1293395-67-1
Formal Name:	4-[4-(4-fluorophenyl)-1-[1-(3-isoxazolylmethyl)-4-piperidinyl]-1H-imidazol-5-yl]-2-pyrimidinamine
MF:	$C_{22}H_{22}FN_7O$
FW:	419.5
Purity:	98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PF-5006739 is supplied as a solid. A stock solution may be made by dissolving the PF-5006739 in the solvent of choice, which should be purged with an inert gas. PF-5006739 is soluble (≥10 mg/ml) in DMSO.

Description

PF-5006739 is a dual inhibitor of casein kinase 1δ (CK1δ) and CK1ε (IC_{50}s = 3.9 and 17 nM, respectively).[1] It is selective for CK1δ/ε over a panel of 57 kinases at 1 µM but does inhibit JNK2 and misshapen-like kinase 1 (MINK1), also known as ZC3 (IC_{50}s = 6.1 and 1.5 µM, respectively). PF-5006739 (10 mg/kg) induces circadian phase delays in mice and cynomolgus monkeys. It prevents reinstatement of fentanyl-seeking behavior in a rat model of drug relapse. PF-5006739 also improves glucose tolerance but does not affect body weight in high-fat diet-induced obese mice and *ob/ob* mice.[2]

References

1. Wager, T.T., Chandrasekaran, R.Y., Bradley, J., *et al.* Casein kinase 1δ/ε inhibitor PF-5006739 attenuates opioid drug-seeking behavior. *ACS Chem. Neurosci.* **5(12)**, 1253-1265 (2014).
2. Cunningham, P.S., Ahern, S.A., Smith, L.C., *et al.* Targeting of the circadian clock via CK1δ/ε to improve glucose homeostasis in obesity. *Sci. Rep.* **6**, 29983 (2016).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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