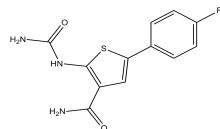


PRODUCT: TPCA-1

ALTERNATE NAME: 2-[(Aminocarbonyl)amino]-5-(4-fluorophenyl)-3-thiophenecarboxamide

CATALOG #: 2431-5, 25

AMOUNT: 5 mg, 25 mg



STRUCTURE:

MOLECULAR FORMULA: C₁₂H₁₀FN₃O₂S

MOLECULAR WEIGHT: 279.29

CAS NUMBER: 507475-17-4

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~25 mg/ml) or EtOH (~3 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: At -20° C. Protect from light and air

DESCRIPTION: A potent and selective inhibitor of IκB kinase-2 (IKK-2) (IC₅₀ = 17.9 nM). Displays > 22-fold selectivity over IKK-1 and > 550-fold selectivity over other kinases and enzymes. TPCA-1 inhibits production of pro-inflammatory cytokines in vitro and in vivo and inhibits NF-κB nuclear localization. It has been used to study inhibition of IKK-2 to prevent inflammatory mediator release in animal models of arthritis and airway inflammation.

REFERENCE: Podolin, P.L., et al. (2005). *J. Pharmacol. Exp. Ther.* **312**, 373-381.

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

RELATED PRODUCTS:

Andrographolide (Cat. No. 2389-50, 250)

BAY 11-7082 (Cat. No. 1867-10, 50)

Celastrol (Cat. No. 1940-5, 25)

Honokiol (Cat. No. 1762-10, 50)

ML130 (Cat. No. 1974-5, 25)

NSC 146109 hydrochloride (Cat. No. 1907-5)

Nutlin-3 (Cat. No. 1842-1, 5)

Parthenolide (Cat. No. 1868-10, 50)

PDTC (Cat. No. 1676-100)

Rocaglamide (Cat. No. 1863-100)

Sauchinone (Cat. No. 2312-1, 5)

Triptolide (Cat. No. 1761-1, 5)

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans