

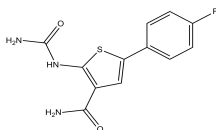
# PRODUCT: TPCA-1

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

**CATALOG #:** 2431-5, 25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>12</sub>H<sub>10</sub>FN<sub>3</sub>O<sub>2</sub>S

**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) (IC<sub>50</sub> = 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 CH USE ONLY! Not to be used in humans*