

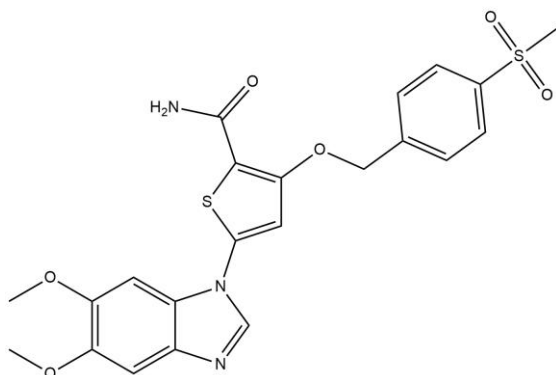
CAY10575

09/19

ALTERNATE NAMES: 5-(5,6-dimethoxybenzimidazol-1-yl)-3-[(4-methylsulfonylphenyl)methoxy]thiophene-2-carboxamide; BMCL191018 Compound 39; BDBM27444

CATALOG #: B2912-1 1 mg
B2912-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₂₁N₃O₆S₂

MOLECULAR WEIGHT: 487.6

CAS NUMBER: 916985-21-2

APPEARANCE: A crystalline solid

PURITY: ≥95%

SOLUBILITY: ~10 mg/ml in DMSO
~1 mg/ml in DMF

DESCRIPTION: CAY10575 is an inhibitor of IKK-ε. IKK-ε is a homolog of IKK-α and IKK-β which can activate NF-κB. NF-κB is activated upon degradation of IκB following IKK-α and IKK-β phosphorylation. CAY10575 is a benzimidazole analog that inhibits IKK-ε with an IC₅₀ value of ~15.8 μM.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

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

REFERENCES: Bamborough, P., Christopher, J.A., Cutler, G.J., et al. 5-(1H-benzimidazol-1-yl)-3-alkoxy-2-thiophenecarbonitriles as potent, selective, inhibitors of IKK-ε kinase. *Bioorganic & Medicinal Chemistry Letters* 16, 6236-6240 (2006).

RELATED PRODUCTS:

RTA 408 (Cat. No. B2860)
 Indole-3-carbinol (Cat. No. B2839)
 Honokiol (Cat. No. 1762)
 PDTC (Cat. No. 1676)
 Wedelolactone (Cat. No. B2811)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*