PRODUCT:  STO-609


CATALOG #:  B1609-5, -25

AMOUNT:  5 mg, 25 mg

STRUCTURE:  

MOLECULAR FORMULA:  C_{19}H_{10}N_{2}O_{3}

MOLECULAR WEIGHT:  314.3

CAS NUMBER:  52029-86-4

APPEARANCE:  Yellow solid powder

SOLUBILITY:  DMSO

PURITY:  ≥98% by HPLC

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

DESCRIPTION:  STO-609 is a cell-permeable and reversible naphthoyl-fused benzimidazole compound that acts as a highly selective, potent, ATP-competitive inhibitor of Ca2+-calmodulin-dependent protein kinase kinase (CaM-KK) (IC50 = 80 ng/ml and 15 ng/ml for CaM-KKa and CaM-KKβ isoforms, respectively). STO-609 is highly selective for CaM-KK without any significant effect on the downstream CaM kinases (CaM-Kl and -IV), and the IC(50) value of the compound against CaM-KII is approximately 10 microg/ml.

REFERENCES:  

RELATED PRODUCTS:
- Berbamine dihydrochloride (2520)
- KN-62, (2495)
- KN-93 (2524)
- KN-93, Water-Soluble (1909)

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

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