**BioVision** 06/17

## PRODUCT: STO-609

ALTERNATE NAMES: STO-609: STO 609: STO609: 7-0x0-7H-

benzo[de]benzo[4,5]imidazo[2,1-a]isoquinoline-3-carboxylic

acid

**CATALOG #:** B1609-5, -25

**AMOUNT:** 5 mg, 25 mg

STRUCTURE:

MOLECULAR FORMULA: C<sub>19</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>

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 napthoyl-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-KK $\alpha$  and CaM-KK $\beta$  isoforms, respectively). STO-609 is highly selective for CaM-KK without any significant effect on the downstream CaM kinases (CaM-KI and -IV), and the IC(50) value of the compound against

CaM-KII is approximately 10 microg/ml.

REFERENCES: 1. Gerner L et al., Using the fluorescent properties of STO-

609 as a tool to assist structure-function analyses of recombinant CaMKK2. Biochem Biophys Res Commun. 2016

Jul 22;476(2):102-7.

2: Fujiwara Y et al., Analysis of Distinct Roles of CaMKK Isoforms Using STO-609-Resistant Mutants in Living Cells.

Biochemistry. 2015 Jun 30;54(25):3969-77.

**HANDLING:** Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

USAGE:

**RELATED PRODUCTS:** 

Berbamine dihydrochloride (2520)

KN-93, Water-Soluble (1909)

KN-62. (2495)

KN-93 (2524)

FOR RESEARCH USE ONLY! Not to be used in humans

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