

## STO-609, CAMKK inhibitor

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Catalog	Unit
TBI1036-5MG	5 mg
TBI1036-25MG	25 mg

### Product Details

**Formal Name:** 7-Oxo-7H-benzimidazo[2,1-a]benz[de]isoquinoline-3-carboxylic acid acetate

**Molecular Formula:** C<sub>19</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub> · CH<sub>3</sub>COOH

**Formula Weight:** 314.30 · 60.05

**CAS Number:** 52029-86-4

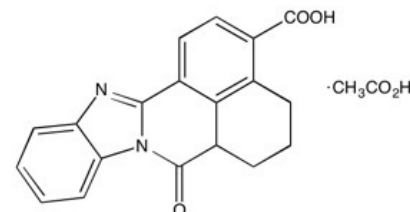
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 10 mg/ml).

**Storage:** RT

**Stability:** ≥ 2 years.



### Applications

CAMKK inhibitor

### Functions

Selective inhibitor of Ca<sup>2+</sup>-calmodulin-dependent protein kinase kinase (K<sub>i</sub> = 80 and 15 ng/ml for inhibition of CaM-KK $\alpha$  and CaM-KK $\beta$  respectively). Binds to the ATP-binding site. Displays > 80-fold selectivity over CaMK1, CaMK2, CaMK4, MLCK, PKC, PKA and p42 MAPK. Important tool for probing distinct CaMK pathways in LTP. Reduces starvation-induced autophagosomal membrane formation. Reverses age-associated decline in bone mass. Stimulates osteoblast formation, inhibits osteoclast differentiation.

### Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**