

## TPCA-1, IKK2 inhibitor (selective)

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Catalog	Unit
TBI5571-5MG	5 mg
TBI5571-25MG	25 mg

### Product Details

**Formal Name:** 2-[(Aminocarbonyl)amino]-5-(4-fluorophenyl)-3-thiophenecarboxamide

**Molecular Formula:** C<sub>12</sub>H<sub>10</sub>FN<sub>3</sub>O<sub>4</sub>S

**Formula Weight:** 229.30

**CAS Number:** 507475-17-4

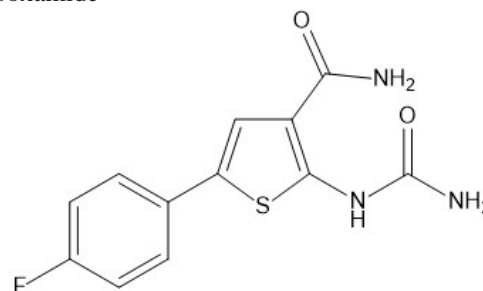
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

IKK2 inhibitor (selective)

### Functions

Selective inhibitor of IκB kinase 2 (IKK2) (IC<sub>50</sub> = 17.9 nM). Inhibits production of pro-inflammatory cytokines in arthritis and other animal models of inflammation. Also attenuates NLRP3 inflammasome activation in THP-1 myeloid cells, and suppresses IL1β-induced proliferation, migration, and invasion of HeLa cells. Continuous exposure to TPCA-1 promotes expansion of hematopoietic stem/progenitor cells (HSPCs) via improved glycolysis and limited ROS production.

### Application Procedures

First dissolved in DMSO (30 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.**