

## Torin 1, mTOR inhibitor

Catalog	Unit
TBI3013-5MG	5 mg
TBI3013-25MG	25 mg

### Product Details

**Formal Name:** 1-[4-[4-(1-oxopropyl)-1-piperazinyl]-3-(trifluoromethyl)phenyl]-9-(3-quinolinyl)-benzo[h]-1,6-naphthyridin-2(1H)-one

**Molecular Formula:** C<sub>35</sub>H<sub>28</sub>F<sub>3</sub>N<sub>5</sub>O<sub>2</sub>

**Formula Weight:** 607.60

**CAS Number:** 1222998-36-8

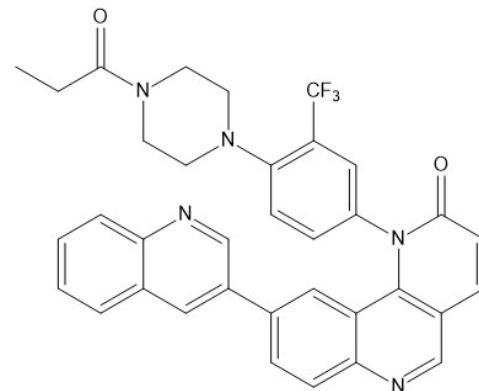
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 8 mg/ml with warming)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

mTOR inhibitor

### Functions

Potent and selective ATP-competitive mTOR inhibitor, IC<sub>50</sub>=2 and 10 nM for mTORC1 and mTORC2 respectively. Active in vivo at inhibition of mTOR-mediated effects in mice (20 mg/kg). Induces autophagy. Torin 1-mediated enhancement of TFEB-mediated autophagy alleviates neuronal death in oxidative stress-induced disease models. Downregulates NGF expression in RSC96 cells.

### Application Procedures

First dissolved in DMSO (up to 8 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

**For research use only.**