

Catalog	Unit
TBI3973-10MG	10 mg
TBI3973-50MG	50 mg

### Product Details

**Formal Name:** N-(2-hydroxy-5-methylphenyl)-3-phenylpropanamide

**Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>2</sub>

**Formula Weight:** 255.3

**CAS Number:** 393121-74-9

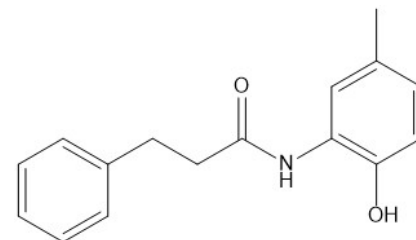
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml) or in Ethanol (up to 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

ATF6 activator; ER proteostasis

### Functions

Compound 147 is a preferential activator of the ER stress sensing protein ATF6. It was able to selectively reduce secretion and extracellular aggregation of destabilized amyloidogenic variants of TTR and LC proteins. Compound 147-dependent ATF6 activation proceeds via metabolic activation to a reactive electrophile that selectively modifies ER proteins including multiple protein disulfide isomerases. Compound 147 suppressed pluripotency and promoted human stem cell differentiation toward a mesodermal lineage via ER expansion. It protected the heart against ischemia/reperfusion (I/R) injury in a mouse model of acute myocardial infarction in an ATF6-dependent manner. Brain, kidney, and liver tissue was also protected from I/R damage and impaired proteostasis. Compound 147 reduced infection of multiple strains of dengue and Zika viruses in an ATF6-independent manner.

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**For research use only.**