

Catalog	Unit
TBI1515-5MG	5 mg
TBI1515-25MG	25 mg

### Product Details

**Formal Name:** (Z)-3-(4-Iodophenyl)-2-mercapto-2-propenoic acid

**Molecular Formula:** C<sub>9</sub>H<sub>7</sub>IO<sub>2</sub>S

**Formula Weight:** 306.12

**CAS Number:** 179528-45-1

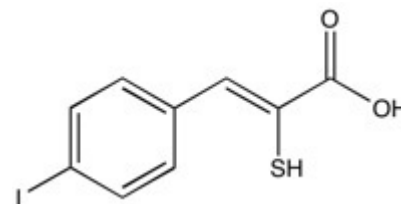
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 15 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Calpain inhibitor

### Functions

A selective, cell-permeable non-peptide calpain inhibitor (K<sub>i</sub> for μ- and m-calpains = 0.21 and 0.37 μM respectively). Acts at the calcium binding site of calpain rather than the substrate-binding site. Inhibits calpain activity in two intact cell systems. Attenuates hypoxic/hypoglycemic injury to cerebrotical neurons in culture and excitotoxic injury to Purkinje cells in cerebellar slices. Displays cytoprotective effects in oxidant- and calcium ionophore-induced cell death. Some protective effects may be due to inhibition of MMP activity.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

**For research use only.**