

Catalog	Unit
TBI3307 - 1MG	1 mg
TBI3307 - 5MG	5 mg

### Product Details

**Formal Name:** Oxo-8,9-dithiabicyclo[5.2.0]non-1,4,6-triene-2-carboxylic acid

**Molecular Formula:** C<sub>8</sub>H<sub>4</sub>O<sub>3</sub>S<sub>2</sub>

**Formula Weight:** 212.25

**CAS Number:** 750590-18-2

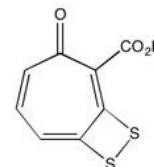
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to 5 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Disrupts mitochondrial membrane potential  
Cytotoxic

### Functions

Tropodithietic acid (750590-18-2) displays potent broad-spectrum anticancer activity. Displays cytotoxic effects on mammalian cell lines (neuronal N2a cells and OLN-93 cells as model systems for nerve cells and glia) acting via disruption of mitochondrial membrane potential, activation of ERK1/2 and induction of HSP32/HO-1 (considered as a sensor of oxidative stress). A broad-spectrum antibiotic agent produced by marine bacteria which does not appear to induce resistance after long-term exposure.

### Application Procedures

First dissolved in DMSO (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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