

Catalog	Unit
TBI2393-250MG	250 mg
TBI2393-1G	1 g

### Product Details

**Formal Name:** 6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid

**Molecular Formula:** C<sub>14</sub>H<sub>18</sub>O<sub>4</sub>

**Formula Weight:** 250.30

**CAS Number:** 53188-07-1

**Purity:** ≥98%

**Formulation:** Powder.

**Solubility:** Soluble in DMSO (25 mg/ml); or ethanol (25 mg/ml); or water at alkaline pH

**Storage:** Room temperature

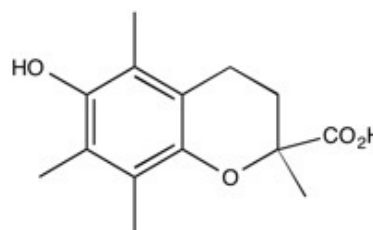
**Stability:** ≥ 2 years protect from light

### Applications

Antioxidant.

### Functions

Water soluble derivative of vitamin E with potent antioxidant and radical scavenging activities. Prevents lipid peroxidation induced by CYP2E1 in Hep G2 cells. Inhibits peroxynitrite-mediated oxidative stress and apoptosis in rat thymocytes. Attenuates impaired proliferation of oxidatively stressed myoblasts overexpressing parkin interacting substrate (PARIS/ZNF746). Frequently employed as a benchmark compound to compare the antioxidant capacity of other compounds and reference standard for determination of “trolox equivalents”.



### Application Procedures

Trolox can be first dissolved in DMSO (25 mg/ml); or ethanol (25 mg/ml), or water at alkaline pH, then diluted to aqueous buffer. Prepare fresh solutions daily. Do not store solutions.

### Relative Products

TBI1092	AICAR, AMPK activator
TBI1029	Dorsomorphine, AMPK inhibitor
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2430	Amphotericin B, antifungal agent
TBI2657	Roflumilast, PDE4 Inhibitor
TBI1319	BML-288, PDE2 Inhibitor
TBI2584	Cilostamide, PDE3 Inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor

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