

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:** ≥90%

**Formulation:** Powder.

**Solubility:** Soluble in DMSO (25 mg/ml); or ethanol (25 mg/ml); or water at alkaline pH. Do not store solutions.

**Storage:** -20°C.

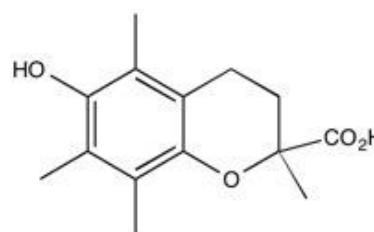
**Stability:** ≥ 2 years protect from light.

### Applications

- Antioxidant agent.

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

### 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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