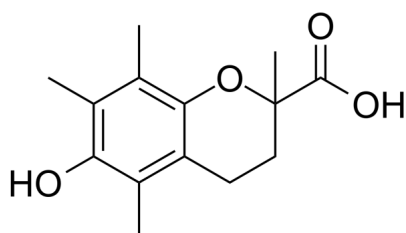


Data Sheet

Product Information

| | |
|------------------|---|
| Catalog Number | BP22551 |
| Product Name | Trolox |
| Description | Trolox is an analogue of vitamin E with a powerful antioxidant effect. Trolox is also a powerful inhibitor of membrane damage. |
| In vitro | Trolox has shown to protect mammalian cells from oxidative damage. Trolox is effective in preventing myocyte necrosis in cell culture studies and in a canine model of two hours of left anterior descending coronary artery (LAD) occlusion followed by four hours of reperfusion. Trolox could prevent oxidative stress-induced apoptosis in thymocytes. Pre- or posttreatment of cells with Trolox reduced H ₂ O ₂ -induced DNA fragmentation to control levels and below. Trolox is a hydrophilic analogue of alpha-tocopherol and reported to scavenge peroxy radicals better than vitamin E in sodium dodecyl sulfate micelles and in liposomes. Trolox prolongs substantially the survival of human ventricular myocytes and hepatocyte against oxyradicals generated with xanthine oxidase plus hypoxanthine, and prevented lysis of red cells exposed to an azo-initiator. |
| CAS No. | 53188-07-1 |
| Chemical Formula | C ₁₄ H ₁₈ O ₄ |
| Molecular Weight | 250.29 |
| Solubility | DMSO: ≥ 100 mg/mL (399.54 mM) |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |

Chemical Structure
OR
Tested Image



Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

v2 Revision on 12/28/2022