

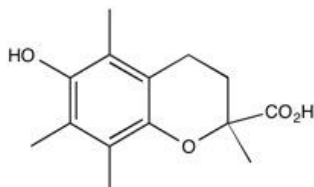
Catalog # 10-2393

Trolox

CAS# 53188-07-1

6-Hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid

Lot # X101434



Water soluble derivative of vitamin E. Displays antioxidant and radical scavenging activities¹. Prevents lipid peroxidation induced by CYP2E1 in Hep G2 cells². Inhibits peroxynitrite-mediated oxidative stress and apoptosis in rat thymocytes³.

- 1) Massey *et al.* (1990), *Free radical damage in neonatal rat cardiac myocyte cultures: effects of alpha-tocopherol, Trolox and phytol*, *Free Radic. Biol. Med.*, **8** 449
- 2) Chen *et al.* (1998), *Cytotoxicity and apoptosis produced by cytochrome P450 2E1 in Hep G2 cells*; *Mol. Pharmacol.*, **53** 638
- 3) Brookes *et al.* (1996), *Trolox inhibits peroxynitrite-mediated oxidative stress and apoptosis in rat thymocytes*; *Arch. Biochem. Biophys.*, **333** 482

PHYSICAL DATA

Molecular Weight:	250.30
Molecular Formula:	C ₁₄ H ₁₈ O ₄
Purity:	97% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml). Also soluble in water at alkaline pH.
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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