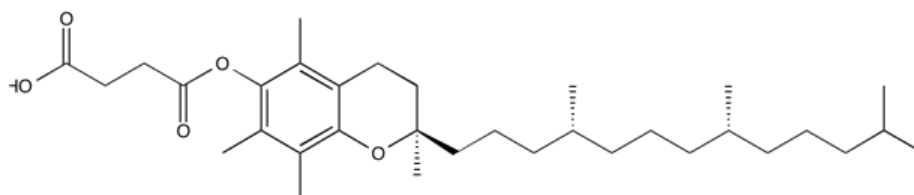


**Catalog # 10-2852**  
**Tocopherol Succinate**

4345-03-3

Vitamin E succinate

Lot # X101823



Potent antioxidant. Protects mice from gamma-radiation by induction of granulocyte-colony stimulating factor<sup>1,2</sup>. Induces apoptosis in human gastric cancer cells<sup>3</sup> and inhibits proliferation of mesothelioma cells by down-regulation of fibroblast growth factor receptor-1<sup>4</sup>. Induces apoptosis in neuroblastoma cells<sup>5</sup>.

- 1) Singh *et al.* (2010), *Alpha-tocopherol succinate protects mice from gamma-radiation by induction of granulocyte-colony stimulating factor*; Int. J. Radiation Biol., **86** 12
- 2) Singh *et al.* (2009), *Tocopherol succinate: a promising radiation countermeasure*; Immunopharmacol., **9** 1423
- 3) Wu *et al.* (2004), *c-Jun N-terminal kinase is required for vitamin E succinate-induced apoptosis in human gastric cancer cells*; J. Gastroenterol., **10** 1110
- 4) Stapelberg *et al.* (2004), *alpha-Tocopheryl succinate inhibits proliferation of mesothelioma cells by selective down-regulation of fibroblast growth factor receptors*; Biochem. Biophys. Res. Commun., **318** 636
- 5) Swettenham *et al.* (2005), *Alpha-tocopheryl succinate selectively induces apoptosis in neuroblastoma cells: potential therapy of malignancies of the nervous system*; J. Neurochem., **94** 1448

**PHYSICAL DATA**

Molecular Weight:	530.78
Molecular Formula:	C <sub>33</sub> H <sub>54</sub> O <sub>5</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), Ethanol (up to 50 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**