

Probucol, Blocks oxidation of cholesterol

Catalog	Unit
TBI2679-1G	1 g
TBI2679-10G	10 g

Product Details

Formal Name: 4,4'-[(1-Methylethylidene)bis(thio)]bis[2,6-bis(1,1-dimethylethyl)-phenol]

Alternate Names: DH-581

Molecular Formula: C₃₁H₄₈O₂S₂

Formula Weight: 516.8

CAS Number: 23288-49-5

Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 100 mg/ml), in Ethanol (up to 50 mg/ml)

Storage: RT

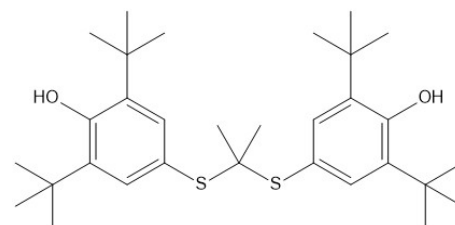
Stability: ≥ 2 years.

Applications

Blocks oxidation of cholesterol

Functions

Unique antilipidemic drug which inhibits the oxidation of LDL cholesterol preventing the genesis of macrophage-derived foam cells and thus suppressing the formation of atherosclerotic vascular lesions. It inhibits ABCA1-mediated cholesterol efflux without influencing scavenger receptor (class B type 1)-mediated efflux. It enhances mitophagy and improves survival, locomotor function and dopaminergic neuron loss in zebrafish and fly models of mitochondrial damage. It attenuates NF-κB/NLRP3 signalling and augments Nrf-2-mediated antioxidant defense in nerve injury models. Improves learning and memory in aging mice. It protects neuronal cells against peroxide-induced damage and directly activates glutathione peroxidase-1.



Application Procedures

First dissolved in DMSO (100 mg/ml), or in Ethanol (50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.