

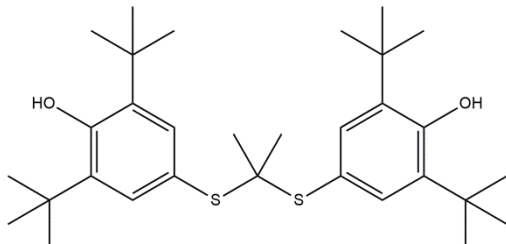
Probuco

01/20

ALTERNATE NAMES: 2,6-ditert-butyl-4-[2-(3,5-ditert-butyl-4-hydroxyphenyl)sulfanylpropan-2-ylsulfanyl]phenol; Lorelco; Biphenabid; Bisphenabid; NSC 86225; NSC 652160; DH 581; 4,4'-[(1-Methylethylidene)bis(thio)]bis[2,6-bis(1,1-dimethylethyl)phenol]; Acetone bis(3,5-di-tert-butyl-4-hydroxyphenyl) mercaptole; 4,4'-(Isopropylidenedithio)bis(2,6-di-tert-butylphenol)

CATALOG #: B2968-100 100 mg
B2968-500 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₁H₄₈O₂S₂

MOLECULAR WEIGHT: 516.84

CAS NUMBER: 23288-49-5

APPEARANCE: Solid

PURITY: >98.0%

SOLUBILITY: ~25 mg/ml in Ethanol
~30 mg/ml in DMF
~20 mg/ml in DMSO

DESCRIPTION: Probuco is a potent antioxidant that inhibits the oxidation of cholesterol in LDL which prevents the formation of macrophage-derived foam cells that lead to atherosclerotic vascular lesions. The use of probucon is limited, because it leads to the reduction of HDL cholesterol. Probucon inhibits cholesterol efflux up to 80% in J774 macrophages expressing ATP-binding cassette transporter A1 (ABCA1) by inhibiting ABCA1 translocation to the plasma membrane. Administration of probucon at 3.5 mg/kg/day for 2 months increases the activity of glutathione peroxidase in an in vivo mouse model of Huntington's disease and is protective against behavioral and striatal oxidative damage.

STORAGE TEMPERATURE: -20°C. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Favari, E., Zanotti, I., Zimetti, F., et al. Probucon inhibits ABCA1-mediated cellular lipid efflux. *Arteriosclerosis, Thrombosis, and Vascular Biology* 24(12), 2345-2350 (2004).
2. Yamamoto, A. A unique antilipidemic drug--Probucon. *Journal of Atherosclerosis and Thrombosis* 15(6), 304-305 (2013).
3. Colle, D., Santos, D.B., Moreira, E.L.G., et al. Probucon increases striatal glutathione peroxidase activity and protects against 3-nitropropionic acid-induced pro-oxidative damage in rats. *PLoS One* 8(6), e67658 (2013).

RELATED PRODUCTS:

Atorvastatin (Cat. No. 2278)
 EZSolution™ Triacsin C (Cat. No. 9683)
 Lovastatin (Cat. No. 1692)
 Compound 112254 (Cat. No. 2573)
 Simvastatin (Cat. No. 1693)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**