

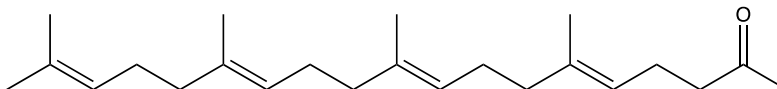
Catalog # 10-2262

Teprenone

CAS# 58-58-2

Geranylgeranylacetone; GGA; 6,10,14,18-Tetramethyl-5,9,13,17-nonadecatetraen-2-one

Lot # X106113



Induces expression of HSP70 after various types of stimuli.^{1,2} Protects against visceral adiposity and insulin resistance in high fat fed mice.³ Displays protective effects via enhanced induction of HSPB1 and HSPB8 in mitochondria of the failing heart following myocardial infarction in rats.⁴

- 1) Kamal and Omran (2013) *The role of heat shock protein 70 induced by geranylgeranylacetone in carbon tetrachloride-exposed adult rat testes*; Pathophysiology **20** 139
- 2) Lennikov *et al.* (2013) *Induction of heat shock protein 70 ameliorates ultraviolet-induced photokeratitis in mice*; Int.J.Mol.Sci. **14** 2175
- 3) Adache *et al.* (2010) *An acyclic polyisoprenoid derivative, geranylgeranylacetone, protects against visceral adiposity and insulin resistance in high fat fed mice*; Am.J.Physiol.Endocrinol.Metab. **299** E764
- 4) Marunouchi *et al.* (2014) *Protective effect of geranylgeranylacetone via enhanced induction of HSPB1 and HSPB8 in mitochondria of the failing heart following myocardial infarction in rats*; Eur.J.Pharmacol. **730** 140

PHYSICAL DATA

Molecular Weight:	330.55
Molecular Formula:	C ₂₃ H ₃₈ O
Purity:	>95% (GC)
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Colorless oil (mixture of cis and trans isomers at C5)
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to air. Solutions in DMSO 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.

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