

Geranylgeranoic acid, Bioactive Isoprenoid

Catalog	Unit
TBI3337-1MG	1 mg
TBI3337-5MG	5 mg

Product Details

Formal Name: all trans-3,7,11-15-Tetramethyl-2,6,10,14-hexadecatetraenoic acid

Alternate Names: GGA

Molecular Formula: C₂₀H₃₂O₂

Formula Weight: 304.5

CAS Number: 35750-48-2

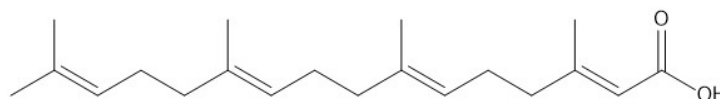
Purity: >96%

Formulation: Liquid

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Bioactive Isoprenoid

Functions

An acyclic retinoid that is found naturally occurring in several traditional herbal medicines. Like many retinoids, geranylgeranoic acid plays a role in bone formation. It has been demonstrated to induce osteoblast differentiation and to inhibit osteoclast formation both *in vitro* and *in vivo*. It has been shown to induce apoptosis in various cell lines including HuH-7, PLC/PRF-5 and MLE-10. Induces unfolded protein response in human hepatoma cells. It effectively inhibits methicillin-resistant *Staphylococcus aureus* adhesion to keratin, fibronectin, fibrinogen, and immunoglobulins offering a potentially new treatment for a difficult to treat bacteria.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

For research use only.