

tHGA

Chemical Properties

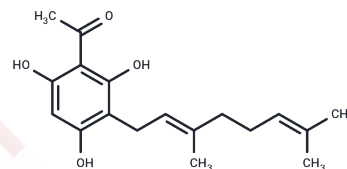
CAS No. : 43230-43-9

Formula: C₁₈H₂₄O₄

Molecular Weight: 304.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	tHGA is a potent inhibitor of lipoxygenase.
Targets(IC50)	Others,Lipoxygenase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2854 mL	16.4268 mL	32.8537 mL
5 mM	0.6571 mL	3.2854 mL	6.5707 mL
10 mM	0.3285 mL	1.6427 mL	3.2854 mL
50 mM	0.0657 mL	0.3285 mL	0.6571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Lee YZ, Yap HM, Shaari K, Tham CL, Sulaiman MR, Israf DA. Blockade of Eosinophil-Induced Bronchial Epithelial-Mesenchymal Transition with a Geranyl Acetophenone in a Coculture Model. *Front Pharmacol.* 2017 Nov 16;8:837. doi: 10.3389/fphar.2017.00837. eCollection 2017. PubMed PMID: 29201006; PubMed Central PMCID: PMC5696322.
- Tan JW, Israf DA, Md Hashim NF, Cheah YK, Harith HH, Shaari K, Tham CL. LAT is essential for the mast cell stabilising effect of tHGA in IgE-mediated mast cell activation. *Biochem Pharmacol.* 2017 Nov 15;144:132-148. doi: 10.1016/j.bcp.2017.08.010. Epub 2017 Aug 13. PubMed PMID: 28813645.
- Tan JW, Israf DA, Harith HH, Md Hashim NF, Ng CH, Shaari K, Tham CL. Anti-allergic activity of 2,4,6-trihydroxy-3-geranylacetophenone (tHGA) via attenuation of IgE-mediated mast cell activation and inhibition of passive systemic anaphylaxis. *Toxicol Appl Pharmacol.* 2017 Mar 15;319:47-58. doi: 10.1016/j.taap.2017.02.002. Epub 2017 Feb 4. PubMed PMID: 28167223.
- Lee YZ, Shaari K, Cheema MS, Tham CL, Sulaiman MR, Israf DA. An orally active geranyl acetophenone attenuates airway remodeling in a murine model of chronic asthma. *Eur J Pharmacol.* 2017 Feb 15;797:53-64. doi: 10.1016/j.ejphar.2017.01.011. Epub 2017 Jan 12. PubMed PMID: 28089919.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481