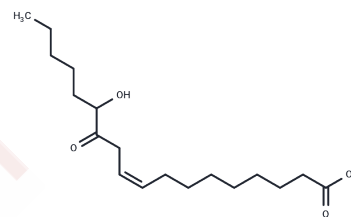


12-oxo-13-HOME

Chemical Properties

CAS No. :	5502-89-6
Formula:	C ₁₈ H ₃₂ O ₄
Molecular Weight:	312.44
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	12-oxo-13-HOME is an oxylipin derived from linoleic acid .It is formed via a 13-HpODE intermediate that is produced by lipoxygenase-mediated metabolism of linoleic acid. 2,3,112-oxo-13-HOME has been found in corn and sunflower seedlings.4
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2006 mL	16.0031 mL	32.0061 mL
5 mM	0.6401 mL	3.2006 mL	6.4012 mL
10 mM	0.3201 mL	1.6003 mL	3.2006 mL
50 mM	0.064 mL	0.3201 mL	0.6401 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

Ogorodnikova, A.V., Gorina, S.S., Mukhtarova, L.S., et al. Stereospecific biosynthesis of (9S,13S)-10-oxo-phytoenoic acid in young maize roots *Biochim. Biophys. Acta* 1851(9)1262-1270(2015)

Veldink, G.A., and Vliegthart, J.F.G. The enzymic conversions of 13-hydroperoxy-cis-9-trans-11-octadecadienoic acid into 13-hydroxy-12-oxo-cis-9-octadecenoic acid *Biochem. J.* 110(4)58P(1968)

Gardner, H.W. Sequential enzymes of linoleic acid oxidation in corn germ: Lipoxygenase and linoleate hydroperoxide isomerase. *Lipid Res.* 11(4)311-321(1970)

Vick, B.A., and Zimmerman, D.C. Levels of oxygenated fatty acids in young corn and sunflower plants *Plant Physiol.* 69(5)1103-1108(1982)

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