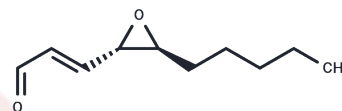


trans-4,5-epoxy-2(E)-Decenal

Chemical Properties

CAS No. :	134454-31-2
Formula:	C ₁₀ H ₁₆ O ₂
Molecular Weight:	168.24
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	trans-4,5-epoxy-2(E)-Decenal is an oxygenated α,β -unsaturated aldehyde present in mammalian blood, responsible for the characteristic metallic odor of blood, which predators often use to track blood sources or locate prey.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMF: 15.00 mg/mL (89.16 mM),Sonication is recommended. Ethanol: 15.00 mg/mL (89.16 mM),Sonication is recommended. DMSO: 15.00 mg/mL (89.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9439 mL	29.7194 mL	59.4389 mL
5 mM	1.1888 mL	5.9439 mL	11.8878 mL
10 mM	0.5944 mL	2.9719 mL	5.9439 mL
50 mM	0.1189 mL	0.5944 mL	1.1888 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 SH, et al. 4,5-Epoxy-2(E)-decenal-induced formation of 1,N(6)-etheno-2'-deoxyadenosine and 1,N(2)-etheno-2'-deoxyguanosine adducts. Chem Res Toxicol. 2002 Mar;15(3):300-4.
- Zamora, R., and Hidalgo, F.J. Modification of lysine amino groups by the lipid peroxidation product 4,5(E)-epoxy-2(E)-heptenal. Lipids 29, 243-249 (1994).

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