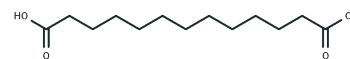


Tridecanedioic acid

Chemical Properties

CAS No. :	505-52-2
Formula:	C ₁₃ H ₂₄ O ₄
Molecular Weight:	244.33
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	Tridecanedioic acid (Brassicic acid) is an unusual odd-numbered dicarboxylic acid that appears in the urines of children with neonatal adrenoleukodystrophy and Zellweger syndrome, as an additional marker of these peroxisomal disorders.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 50 mg/mL (204.64 mM),Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (10.23 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0928 mL	20.4641 mL	40.9283 mL
5 mM	0.8186 mL	4.0928 mL	8.1857 mL
10 mM	0.4093 mL	2.0464 mL	4.0928 mL
50 mM	0.0819 mL	0.4093 mL	0.8186 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

Rocchiccioli F, et al. Mass spectrometric identification of 2-hydroxy-sebacic acid in the urines of patients with neonatal adrenoleukodystrophy and Zellweger syndrome. Biomed Environ Mass Spectrom. 1986 Jun;13(6):315-8.

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