

4-Oxododecanedioic acid

Chemical Properties

CAS No. : 30828-09-2

Formula: C₁₂H₂₀O₅

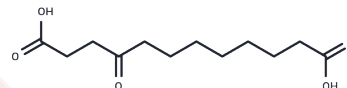
Molecular Weight: 244.28

Storage:

Keep away from direct sunlight, Keep away from moisture, Store under nitrogen

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	4-Oxododecanedioic acid is an organic acid containing a ketone group that can be used in studies related to organic synthesis and fatty acid metabolism. Studies related to its structural analog dodecanedioic acid have found that intake of long-chain dicarboxylic acid increases beta-oxidation of fatty acids, decreases body fat accumulation, and improves glucose tolerance.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0937 mL	20.4683 mL	40.9366 mL
5 mM	0.8187 mL	4.0937 mL	8.1873 mL
10 mM	0.4094 mL	2.0468 mL	4.0937 mL
50 mM	0.0819 mL	0.4094 mL	0.8187 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

Vlasatikova L, et al. Colonization of chickens with competitive exclusion products results in extensive differences in metabolite composition in cecal digesta. Poult Sci. 2024 Jan;103(1):103217.

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