

DL-4-Hydroxy-2-ketoglutarate

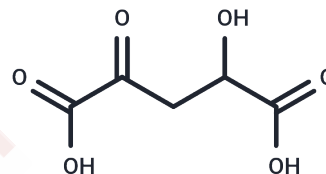
Chemical Properties

CAS No. : 1187-99-1

Formula: C₅H₆O₆

Molecular Weight: 162.1

Storage: Store at low temperature
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	DL-4-Hydroxy-2-ketoglutarate (DL-4KG) is a gamma-keto acid as well as a structural analogue of glutamic acid that functions as a biochemical substrate for enzymes such as 4-hydroxy-2-oxoglutarate aldolase (HOGA1) and glutamic-oxaloacetic transaminase (GOT), DL-4-Hydroxy-2-ketoglutarate also serves as a lysine analogue used in mechanistic studies of enzyme inhibition and metabolic pathways.
Targets(IC50)	Others, Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.169 mL	30.8452 mL	61.6903 mL
5 mM	1.2338 mL	6.169 mL	12.3381 mL
10 mM	0.6169 mL	3.0845 mL	6.169 mL
50 mM	0.1234 mL	0.6169 mL	1.2338 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

Huang A, et al. Regulation of human 4-hydroxy-2-oxoglutarate aldolase by pyruvate and α -ketoglutarate: implications for primary hyperoxaluria type-3. *Biochem J.* 2019 Nov 15;476(21):3369-3383.

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