

Ornithine- α -ketoglutarate

Chemical Properties

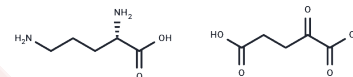
CAS No. : 5191-97-9

Formula: C₁₀H₁₈N₂O₇

Molecular Weight: 278.26

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	Ornithine- α -ketoglutarate (L-Ornithine- α -ketoglutarate) is a salt formed of 2 molecules of ornithine and 1 alpha-ketoglutarate. Ornithine- α -ketoglutarate improves nutritional status in chronically malnourished (e.g., elderly) and acutely malnourished patients (especially burn and trauma)
Targets(IC50)	Others, IGF-1R, GHR

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.5938 mL	17.9688 mL	35.9376 mL
5 mM	0.7188 mL	3.5938 mL	7.1875 mL
10 mM	0.3594 mL	1.7969 mL	3.5938 mL
50 mM	0.0719 mL	0.3594 mL	0.7188 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

Roch-Arveiller M, Tissot M, Coudray-Lucas C, Fontagné J, Le Boucher J, Giroud JP, Cynober L. Immunomodulatory effects of ornithine alpha-ketoglutarate in rats with burn injuries. *Arch Surg.* 1996 Jul;131(7):718-23. PubMed PMID: 8678770.

Le Bricon T, Cynober L, Field CJ, Baracos VE. Supplemental nutrition with ornithine alpha-ketoglutarate in rats with cancer-associated cachexia: surgical treatment of the tumor improves efficacy of nutritional support. *J Nutr.* 1995 Dec;125(12):2999-3010. PubMed PMID: 7500178.

Cynober L. Ornithine alpha-ketoglutarate in nutritional support. *Nutrition.* 1991 Sep-Oct;7(5):313-22. Review. PubMed PMID: 1804465.

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