

Citrulline malate

Chemical Properties

CAS No. : 70796-17-7

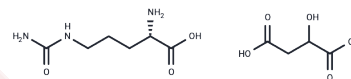
Formula: C₁₀H₁₉N₃O₈

Molecular Weight: 309.27

Keep away from moisture

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	Citrulline malate is an organic compound commonly used as a nutritional supplement. It promotes nitric oxide production in the body, improves blood circulation and exercise performance, and relieves muscle fatigue. It also has industrial applications, such as enhancing plant immunity in agricultural production.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 140 mg/mL (452.68 mM),Sonication is recommended. DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2334 mL	16.1671 mL	32.3342 mL
5 mM	0.6467 mL	3.2334 mL	6.4668 mL
10 mM	0.3233 mL	1.6167 mL	3.2334 mL
50 mM	0.0647 mL	0.3233 mL	0.6467 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

Stepanova YI, Kolpakov IY, Zygalo VM, Vdovenko VY, Kondrashova VH, Leonovich OS, Kryzhanivska VV. Experience of correcting endothelial dysfunction in children-residents of radioactively contaminated areas by nitric oxide potential donator citrulline. *Probl Radiac Med Radiobiol.* 2017 Dec;22:463-475. English, Ukrainian. PubMed PMID: 29286527.

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Tinsley GM, Hamm MA, Hurtado AK, Cross AG, Pineda JG, Martin AY, Uribe VA, Palmer TB. Effects of two pre-workout supplements on concentric and eccentric force production during lower body resistance exercise in males and females: a counterbalanced, double-blind, placebo-controlled trial. *J Int Soc Sports Nutr.* 2017 Nov 28;14:46. doi: 10.1186/s12970-017-0203-x. eCollection 2017. PubMed PMID: 29209154; PubMed Central PMCID: PMC5704438.

Farney TM, Bliss MV, Hearon CM, Salazar DA. The Effect of Citrulline Malate Supplementation On Muscle Fatigue Among Healthy Participants. *J Strength Cond Res.* 2017 Nov 22. doi: 10.1519/JSC.0000000000002356. [Epub ahead of print] PubMed PMID: 29176388.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481