

Alitame anhydrous

Chemical Properties

CAS No.:	80863-62-3
Formula:	C ₁₄ H ₂₅ N ₃ O ₄ S
Molecular Weight:	331.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Alitame anhydrous is a non-nutritive sweetener. It is 2000 times sweeter than sucrose.
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Solubility Information

Solubility	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	3.017 mL	15.086 mL	30.172 mL
5 mM	0.603 mL	3.017 mL	6.034 mL
10 mM	0.302 mL	1.509 mL	3.017 mL
50 mM	0.060 mL	0.302 mL	0.603 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Lakade SS, Zhou Q, Li A, Borrull F, Fontanals N, Marcé RM. Hypercrosslinked particles for the extraction of sweeteners using dispersive solid-phase extraction from environmental samples. *J Sep Sci.* 2018 Apr;41(7):1618-1624. doi: 10.1002/jssc.201701113. Epub 2018 Jan 25. PubMed PMID: 29280297.
- Mooradian AD, Smith M, Tokuda M. The role of artificial and natural sweeteners in reducing the consumption of table sugar: A narrative review. *Clin Nutr ESPEN.* 2017 Apr;18:1-8. doi: 10.1016/j.clnesp.2017.01.004. Epub 2017 Feb 4. Review. PubMed PMID: 29132732.
- Kubica P, Namieśnik J, Wasik A. Determination of eight artificial sweeteners and common *Stevia rebaudiana* glycosides in non-alcoholic and alcoholic beverages by reversed-phase liquid chromatography coupled with tandem mass spectrometry. *Anal Bioanal Chem.* 2015 Feb;407(5):1505-12. doi: 10.1007/s00216-014-8355-x. Epub 2014 Dec 4. PubMed PMID: 25471292; PubMed Central PMCID: PMC4318983.
- Chattopadhyay S, Raychaudhuri U, Chakraborty R. Artificial sweeteners - a review. *J Food Sci Technol.* 2014 Apr;51(4):611-21. doi: 10.1007/s13197-011-0571-1. Epub 2011 Oct 21. Review. PubMed PMID: 24741154; PubMed Central PMCID: PMC3982014.

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