



LKT Laboratories, Inc.

Aspartame

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Product Information

Product ID A7462

CAS No. 22839-47-0

Chemical Name N-L- α -Aspartyl-L-phenylalanine 1-methyl ester

Synonym APM, Equal, NutraSweet, Sanecta

Formula C₁₄H₁₈N₂O₅

Formula Wt. 294.30

Melting Point 246-247°C

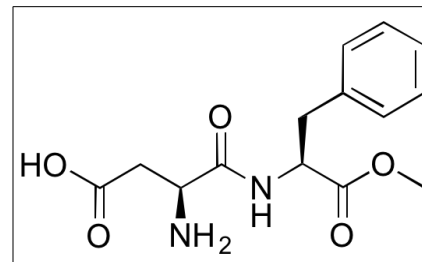
Purity $\geq$ 98%

Solubility Slightly soluble in water, ethanol. Soluble in formic acid, DMSO.

Store Temp Ambient

Ship Temp Ambient

Description Aspartame is a dipeptide ester that is used as an artificial sweetener in commercial food production. Aspartame exhibits antibacterial efficacy against *Porphyromonas*, a periodontal pathogen. In vivo, aspartame also displays antinociceptive activity, increasing latency times in tail flick and paw lick assays.



Bulk quantities available upon request

Product ID	Size
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A7462	100 mg
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A7462	1 g
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A7462	5 g
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A7462	25 g
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References Prashant GM, Patil RB, Nagaraj T, et al. The antimicrobial activity of the three commercially available intense sweeteners against common periodontal pathogens: an in vitro study. J Contemp Dent Pract. 2012 Nov 1;13(6):749-52. PMID: 23403996.

Rani S, Gupta MC. Evaluation and comparison of antinociceptive activity of aspartame with sucrose. Pharmacol Rep. 2012;64(2):293-8. PMID: 22661178.

Yagasaki M, Hashimoto S. Synthesis and application of dipeptides; current status and perspectives. Appl Microbiol Biotechnol. 2008 Nov;81(1):13-22. PMID: 18795289.

Butchko HH, Stargel WW, Comer CP, et al. Aspartame: review of safety. Regul Toxicol Pharmacol. 2002 Apr;35(2 Pt 2):S1-93. PMID: 12180494.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.