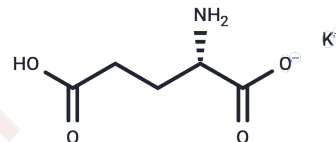


Monopotassium glutamate

Chemical Properties

CAS No. :	19473-49-5
Formula:	C ₅ H ₈ KNO ₄
Molecular Weight:	185.22
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	Monopotassium glutamate (Potassium glutamate) can be used in foods as a flavor enhancer.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Slightly soluble, H ₂ O: 260 mg/mL (1403.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.399 mL	26.9949 mL	53.9898 mL
5 mM	1.0798 mL	5.399 mL	10.798 mL
10 mM	0.5399 mL	2.6995 mL	5.399 mL
50 mM	0.108 mL	0.5399 mL	1.0798 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

Tokita K, Boughter JD Jr. Topographic organizations of taste-responsive neurons in the parabrachial nucleus of C57BL/6J mice: An electrophysiological mapping study. *Neuroscience*. 2016 Mar 1;316:151-66.

Pal Choudhuri S, Delay RJ, Delay ER. Metabotropic glutamate receptors are involved in the detection of IMP and L-amino acids by mouse taste sensory cells. *Neuroscience*. 2016 Mar 1;316:94-108.

Ruggiero MT, et al. Quantification of cation-anion interactions in crystalline monopotassium and monosodium glutamate salts. *Phys Chem Chem Phys*. 2017 Nov 1;19(42):28647-28652.

Green BG, et al. The Effect of Temperature on Umami Taste. *Chem Senses*. 2016 Jul;41(6):537-45.

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