L-Glutamic acid monosodium (hydrate)

Cat. No.: HY-W016145

CAS No.: 6106-04-3

Molecular Formula: $C_5H_{10}NNaO_5$

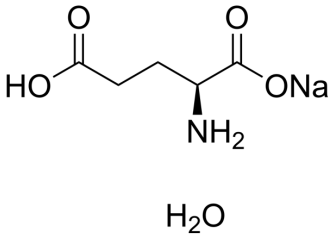
Molecular Weight: 187.13

Target: Apoptosis

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (534.39 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.3439 mL	26.7194 mL	53.4388 mL
	5 mM	1.0688 mL	5.3439 mL	10.6878 mL
	10 mM	0.5344 mL	2.6719 mL	5.3439 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

L-Glutamic acid monosodium hydrate is a nutritional additive and flavoring agent. L-Glutamic acid monosodium hydrate can reduce obesity and induce metabolic disorders associated with oxidative stress. L-Glutamic acid monosodium hydrate induces oxidative stress,DNA damage and apoptosis in the liver and brain tissues of mice[1][2].

REFERENCES

[1]. SALEM N I S, et al. MEASUREMENT OF DNA DAMAGE, OXIDATIVE STRESS, AND GENE EXPRESSION OF β-CATENIN AND P53 GENES IN LIVER AND BRAIN OF MALE MICE RECEIVING MONOSODIUM L-GLUTAMATE MONOHYDRATE[J]. MEASUREMENT, 2020, 13(7).

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