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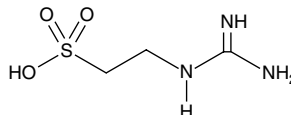
Product Information



Guanidinoethyl sulfonate

Item No. 17572

CAS Registry No.: 543-18-0
Formal Name: 2-[(aminoiminomethyl)amino]-ethanesulfonic acid
Synonyms: NSC 667063, Taurocyamine
MF: C₃H₉N₃O₃S
FW: 167.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that guanidinoethyl sulfonate be stored as supplied at -20°C. It should be stable for at least two years.

Guanidinoethyl sulfonate is supplied as a crystalline solid. Guanidinoethyl sulfonate is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of guanidinoethyl sulfonate be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of guanidinoethyl sulfonate in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Guanidinoethyl sulfonate, also known as taurocyamine, is a natural guanidine-aurine analog derived from taurine. It is an intermediate of taurine and hypotaurine metabolism and is phosphorylated by taurocyamine kinase.¹ Guanidinoethyl sulfonate competitively inhibits taurine uptake by sodium-dependent taurine transporters in rat hepatocytes (K_i = 1.75 mM).² It also acts as a competitive glycine receptor antagonist in mouse striatal neurons.³ Plasma levels of guanidinoethyl sulfonate are significantly increased in patients with chronic renal failure.⁴

References

1. Uda, K., Saishoji, N., Ichinari, S., *et al.* Origin and properties of cytoplasmic and mitochondrial isoforms of taurocyamine kinase. *FEBS J.* **272**, 3521-3530 (2005).
2. Ohkuma, S., Tamura, J., Kuriyama, K., *et al.* Characteristics of taurine transport in freshly isolated rat hepatocytes. Japan. *J. Pharmacol.* **31**, 1061-1070 (1981).
3. Sergeeva, O.A., Chepkova, A.N., and Hass, H.L. Guanidinoethyl sulphonate is a glycine receptor antagonist in striatum. *Br. J. Pharmacol.* **137**, 855-860 (2002).
4. Tanaka, A., Takahashi, Y., Mizokuchi, M., *et al.* Plasma, urinary, and erythrocyte concentrations of guanidino compounds in patients with chronic renal failure. *Ren Fail.* **21**(5), 499-514 (1999).

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