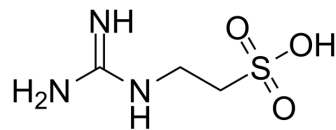


## Guanidinoethyl sulfonate

<b>Cat. No.:</b>	HY-113329		
<b>CAS No.:</b>	543-18-0		
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>9</sub> N <sub>3</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	167.19		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 41.67 mg/mL (249.24 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	5.9812 mL	29.9061 mL	59.8122 mL
		5 mM	1.1962 mL	5.9812 mL	11.9624 mL
10 mM		0.5981 mL	2.9906 mL	5.9812 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (149.53 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Guanidinoethyl sulfonate (Taurocyamine), a transport antagonist of taurine, induces much urinary taurine excretion with a resulting decrease in the tissue taurine content and readily produces taurine-deficient fetal rats in pregnant rats <sup>[1]</sup> . Guanidinoethyl sulfonate, a structural analogue of taurine, acts as a competitive inhibitor of taurine transport <sup>[2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### REFERENCES

[1]. K Ejiri, et al. Effect of guanidinoethyl sulfonate on taurine concentrations and fetal growth in pregnant rats. Biol Neonate. 1987;51(4):234-40.

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[2]. Luz M Suárez, et al. The taurine transporter substrate guanidinoethyl sulfonate mimics the action of taurine on long-term synaptic potentiation. *Amino Acids*. 2016 Nov;48(11):2647-2656.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA