S-Methylglutathione

Cat. No.: HY-W009177

CAS No.: 2922-56-7

Molecular Formula: $C_{11}H_{19}N_3O_6S$

Molecular Weight: 321.35

Target: Glyoxalase (GLO)

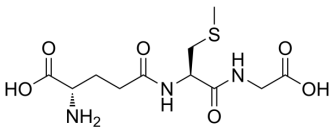
Pathway: Metabolic Enzyme/Protease

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 25 mg/mL (77.80 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1119 mL	15.5594 mL	31.1187 mL
	5 mM	0.6224 mL	3.1119 mL	6.2237 mL
	10 mM	0.3112 mL	1.5559 mL	3.1119 mL

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

BIOLOGICAL ACTIVITY

Description

S-Methylglutathione is an S-substitued glutathione and a stronger nucleophile than GSH[1]. S-Methylglutathione has inhibitory effect on glyoxalase 1[2].

In Vitro

S-Methylglutathione (GS-Me) is a stronger nucleophile than GSH, which is rationalized by the more positive inductive effect of the methyl group[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Foye WO, et al. Synthesis and evaluation of N-alkanoyl-S-benzyl-L-cysteinylglutamic acid esters as glyoxalase I inhibitors and anticancer agents. J Pharm Sci. 1984 Apr;73(4):559-61.

[2]. Milos I. Djuran,et al. Reactivity of chloro- and aqua(diethylenetriamine)platinum(II) ions with glutathione, S-methylglutathione, and guanosine 5'-monophosphate in relation to the antitumor activity and toxicity of platinum complexes. Inorg. Chem. 1991, 30, 12, 2648–2652

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