Data Sheet (Cat.No.T24782)

TargetMol

S-Ethyl glutathione

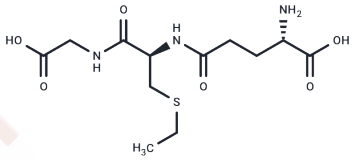
Chemical Properties

CAS No. : 24425-52-3

Formula: C12H21N3O6S

Molecular Weight: 335.38

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	S-Ethyl glutathione is the enzyme Glyoxalase 1 inhibitor.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9817 mL	14.9085 mL	29.8169 mL
5 mM	0.5963 mL	2.9817 mL	5.9634 mL
10 mM	0.2982 mL	1.4908 mL	2.9817 mL
50 mM	0.0596 mL	0.2982 mL	0.5963 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

Jia Y, Wang HD, Wang Q, Ding H, Wu HM, Pan H. GSH depletion and consequent AKT inhibition contribute to the Nrf2 knockdown-induced decrease in proliferation in glioblastoma U251 cells. Oncol Rep. 2017 Apr;37(4):2252-2260. doi: 10.3892/or.2017.5467. Epub 2017 Feb 20. PubMed PMID: 28260004.

Trapphoff T, Heiligentag M, Simon J, Staubach N, Seidel T, Otte K, Fröhlich T, Arnold GJ, Eichenlaub-Ritter U. Improved cryotolerance and developmental potential of in vitro and in vivo matured mouse oocytes by supplementing with a glutathione donor prior to vitrification. Mol Hum Reprod. 2016 Dec;22(12):867-881. Epub 2016 Sep 7. PubMed PMID: 27604460.

Aminizadeh N, Tiraihi T, Mesbah-Namin SA, Taheri T. Stimulation of cell proliferation by glutathione monoethyl ester in aged bone marrow stromal cells is associated with the assistance of TERT gene expression and telomerase activity. In Vitro Cell Dev Biol Anim. 2016 Aug;52(7):772-81. doi: 10.1007/s11626-016-0021-5. Epub 2016 Jun 1. PubMed PMID: 27251157.

Habener A, Chowdhury A, Echtermeyer F, Lichtinghagen R, Theilmeier G, Herzog C. MitoNEET Protects HL-1 Cardiomyocytes from Oxidative Stress Mediated Apoptosis in an In Vitro Model of Hypoxia and Reoxygenation. PLoS One. 2016 May 31;11(5):e0156054. doi: 10.1371/journal.pone.0156054. eCollection 2016. PubMed PMID: 27243905; PubMed Central PMCID: PMC4887087.