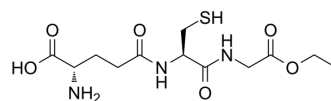


Glutathione ethyl ester

Cat. No.:	HY-134124
CAS No.:	92614-59-0
Molecular Formula:	C ₁₂ H ₂₁ N ₃ O ₆ S
Molecular Weight:	335.38
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (372.71 mM; Need ultrasonic)
H₂O : 100 mg/mL (298.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	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

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

BIOLOGICAL ACTIVITY

Description

Glutathione ethyl ester is a cell-permeable GSH donor and provides an efficient supply of GSH to the oocyte. Glutathione ethyl ester shows positive effect on the in vitro production of embryos by enhancement of the antioxidative defense^[1].

IC₅₀ & Target

IC₅₀: GSH^[1]

REFERENCES

[1]. F Magata, et al. Glutathione ethyl ester improved the age-induced decline in the developmental competence of bovine oocytes. Theriogenology. 2021 Jun;167:37-43.

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

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