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Datasheet for ABIN7318542

Glutathione Synthetase Protein (GSS) (His tag)

Overview

Quantity:	50 µg
Target:	Glutathione Synthetase (GSS)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glutathione Synthetase protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GSS Protein (His Tag)
Sequence:	Ala2-Val474
Characteristics:	Recombinant Human Glutathione Synthetase is produced by our E.coli expression system and the target gene encoding Ala2-Val474 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Glutathione Synthetase (GSS)
Alternative Name:	GSS (GSS Products)
Background:	Background: Glutathione Synthetase belongs to the eukaryotic GSH synthase family. Glutathione Synthetase is the second enzyme in the glutathione biosynthesis pathway. It catalyses the condensation of gamma-glutamylcysteine and glycine to form glutathione.

Target Details

Glutathione play an important role in a variety of biological functions, including detoxification of xenobiotics, protection of cells from oxidative damage by free radicals, and membrane transport. The protein functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in Glutathione Synthetase can also cause the glutathione synthetase deficiency of erythrocytes, which is a mild form causing hemolytic anemia.

Synonym: Glutathione Synthetase, GSH Synthetase, GSH-S, Glutathione Synthase, GSS

Molecular Weight:	53.5 kDa
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UniProt:	P48637
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Pathways:	Warburg Effect
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 200 mM NaCl, pH 7.5 .
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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