

## GSS Human

**Description:** GSS Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 494 amino acids (1-474 a.a.) and having a molecular mass of 54.5kDa. The GSS is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-028

For research use only.

**Synonyms:** Glutathione synthetase, GSH synthetase, GSH-S, Glutathione synthase, GSHS, MGC14098, GSS.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHQH SSGLVPRGSH MATNWGSLLQ DKQQLLEELAR  
QAVDRALAEQ VLLRTSQEPT SSEVVSYPF TLFPSLVPSA LLEQAYAVQM DFNLLVDAVS  
QNAAFLEQTL SSTIKQDDFT ARLFDIHKQV LKEGIAQTVF LGLNRSYMF QRSADGSPAL  
KQIEINTISA SFGGLASRTP AVHRHVLSVL SKTKEAGKIL SNNPSKGLAL GIAKAWELYG  
SPNALVLLIA QE

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The GSS solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Glutathione synthetase (GSS) is the second enzyme in the glutathione biosynthesis pathway. GSS catalyses the condensation of gamma-glutamylcysteine and glycine to form glutathione. Defects in the GSS are the cause of glutathione synthetase deficiency aka GSS deficiency or 5-oxoprolinuria or pyroglutamic aciduria, which is a severe form characterized by an increased rate of hemolysis and defective function of the central nervous system.

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