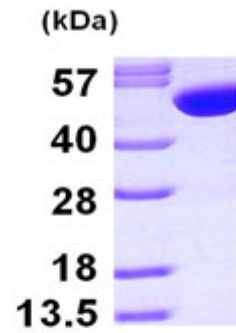


AR09715PU-L**Human Glutathione synthetase (1-474, His-tag) - Purified**

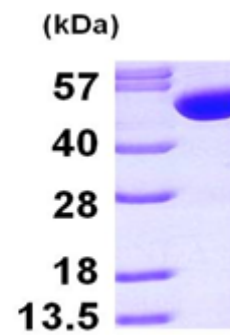
Alternate names:	GSH synthetase, GSS, Glutathione synthase
Quantity:	0.5 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	Glutathione synthetase, also known GSS, is the second enzyme in the glutathione biosynthesis pathway. It catalyses the condensation of gamma-glutamylcysteine and glycine, to form glutathione. Defects in GSS are the cause of glutathione synthetase deficiency (GSS deficiency); also known as 5-oxoprolinuria or pyroglutamic aciduria. It is a severe form characterized by an increased rate of hemolysis and defective function of the central nervous system.
Uniprot ID:	P48637
NCBI:	NP_000169
GeneID:	2937
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Description:	Recombinant human GSS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHQH SSGLVPRGSH MATNWGSLLO DKQQLEELAR QAVDRALAEQ VLLRTSQEPT SSEVVSYAPF TLFPSLVPSA LLEQAYAVQM DFNLLVDAVS QNAAFLEQTL SSTIKQDDFT ARLFDIHKQV LKEGIAQTVF LGLNRSYMF QRSADGSPAL KQIEINTISA SFGGLASRTP AVHRHVLSVL SKTKEAGKIL SNNPSKGLAL GIAKAWELYG SPNALVLLIA QEKERNIFDQRAIENELLAR NIHVIRRTFE DISEKGSLOQ DRRLFVDGQE IAVVYFRDGY MPRQYSLQNW EARLLLERSH AAKCPDIATQ LAGTKKVQQE LSRPGMLEML LPGQPEAVAR LRATFAGLYS LDVGEEDQA IAEALAPSR FVLKPQREGG GNNLYGEMV QALKQLKDSE ERASYILMEK IEPEPFENCL LRPGSPARVV QCISELGIFG VYVRQEKTLV MNKHVGHLLR TKAIEHADGG VAAGVAULDN PYPV Molecular weight: 54.5 kDa (494aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Huanq Z A., et al. (2000) Biochim Biophys Acta. 1493:48-55.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human GSS, 1- 474 aa, His-tagged



15% SDS-PAGE (3ug)