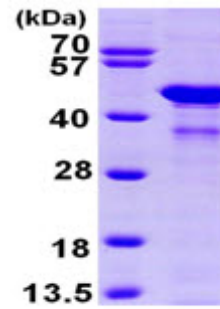


**AR09562PU-L****Human Glutamine synthetase (1-373, His-tag) - Purified**

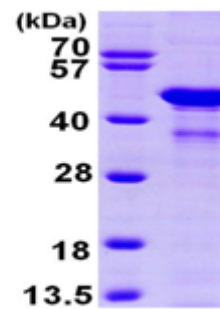
<b>Alternate names:</b>	GLNS, GLUL, GS, Glutamate decarboxylase, Glutamate-ammonia ligase
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml (determined by Bradford assay)
<b>Background:</b>	Glutamine synthetase (GLUL), which is therefore able to regulate intracellular concentrations of glutamate. GLUL catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling. GLUL is essential for proliferation of fetal skin fibroblasts and plays an important role in controlling body pH by removing ammonia from circulation. Mutations in GLUL are associated with congenital glutamine deficiency.
<b>Uniprot ID:</b>	<a href="#">P15104</a>
<b>NCBI:</b>	<a href="#">NP_001028216</a>
<b>GeneID:</b>	<a href="#">2752</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 5 mM DTT, 200 mM NaCl
<b>Description:</b>	Recombinant GLUL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. <b>AA Sequence:</b> MGSSHHHHHH SSGLVPRGSH MTTSSASHLN KGIKQVYMSL PQGEKVQAMY IWIDGTGEGLRCKTRTLTLDSE PKCVELPEW NFDGSSTLQS EGSNSDMYLV PAAMFRDPFR KDPNKLVLCE VFKYNRRPAE TNLRHTCKRI MDMVSNQHPW FGMEQEYTLM GTDGHPPFGWP SNGFPGPQGF YYCGVGADRA YGRDIVEAHY RACLYAGVKI AGTNAEVMPA QWEFQIGPCE GISMGDHLWV ARFILHRVCE DFGVIATFDP KPIPGNWNGA GCHTNFSTKA MREENGLKYI EEAEIEKLSKR HQYHIRAYDP KGGLDNARRL TGFHETSININ DFSAGVANRS ASIRIPRTVG QEKKGYFEDR RPSANCDPFS VTEALIRTCL LNETGDEPFQ YKN <b>Molecular weight:</b> 44.2 kDa (393aa), confirmed by MALDI-TOF
<b>Storage:</b>	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.
<b>General Readings:</b>	Vermeulen T., et al, (2008) Arch Biochem Biophys. 478:96-102.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human GLUL, 1-373aa, His-tagged



15% SDS-PAGE (3ug)