

**GLUL, 1-373aa, Human, E.coli (Bioactivity Validated)**

**Cat.NO.: TP02264**

3th Edition

**Synonyms:**Glutamine synthetase , GLNS, GS, PIG43, PIG59, cell proliferation-inducing protein 59, GLNA, GLNA\_HUMAN, GLNS, GLULGlutamate ammonia ligase.

**Description:**GLUL also known as Glutamine synthetase. It is a trimetallic enzyme containing two divalent cation sites and one monovalent cation site per subunit. GLUL is able to regulate intracellular concentrations of glutamate and catalyzes the synthesis of glutamine from glutamate and ammonia. It is ubiquitously expressed in the human and plays a major role for many metabolic pathways such as cell proliferation, inhibition of apoptosis, and cell signaling. Recombinant Human GLUL was expressed in E.coli and purified by using conventional chromatography techniques

**Form:**Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 0.1mM PMSF

**Molecular Weight:**42kDa (373aa), confirmed by MALDI-TOF

**Sequences:**

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLTLDSEPKCVEELPEWNFDGSSTLQSEGSNS  
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAETNLRHTCKRIMDMVSNQHPWFGMEQEYTLMGTDGHPFG  
WPSNGFPGPQGPYYCGVGADRAYGRDIVEAHYRACLYAGVKIAGTNAEVMPAQWFEFQIGPCEGISMGDHLWVAR  
FILHRVCEDFGVIATFDPKPIPGNWNAGGCHTNFSTKAMREENGLKYIEEAIEKLSKRHQYHIRAYDPKGGLDNARR  
LTGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYFEDRRPSANCDPFSVTEALIRTCLLNETGDEPFQYKN

**Purity:**> 95% by HPLC

**Concentration:**1mg/ml (determined by Absorbance at 280nm )

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.