

## Recombinant Human GLUL Protein, His-tagged

**Cat. No.** GLUL-153H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GLUL(Thr2-Asn373), transcript variant 1, fused with His tag at C-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Thr2-Asn373
<b>Description</b>	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are associated with congenital glutamine deficiency, and overexpression of this gene was observed in some primary liver cancer samples. There are six pseudogenes of this gene found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript variants.
<b>Form</b>	Supplied as a 0.2 $\mu$ M filtered solution of 20mM Tris-HCl, 200mM NaCl, 50mM Imidazole, pH 8.0
<b>Molecular Mass</b>	43.0 kDa
<b>Endotoxin</b>	< 0.1 EU per g protein as determined by LAL test

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Purity** >95% as determined by SDS-PAGE and Coomassie blue staining

**Concentration** >50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

**Gene Name** [GLUL glutamate-ammonia ligase \[ Homo sapiens \]](#)

**Official Symbol** [GLUL](#)

**Synonyms** GLUL; glutamate-ammonia ligase; GLNS, glutamate ammonia ligase (glutamine synthase); glutamine synthetase; glutamine synthase; glutamate decarboxylase; glutamate--ammonia ligase; proliferation-inducing protein 43; cell proliferation-inducing protein 59; GS; GLNS; PIG43; PIG59;

**Gene ID** [2752](#)

**mRNA Refseq** [NM\\_002065](#)

**Protein Refseq** [NP\\_002056](#)

**MIM** [138290](#)

**UniProt ID** [P15104](#)

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