



# Recombinant Protein Technical Manual

## Recombinant Human GLUL Protein (His Tag)

RPES5046

### Product Data:

**Product SKU:** RPES5046

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P15104

### Protein Information:

**Molecular Mass:** 43.1 kDa

**AP Molecular Mass:** 60 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 200mM NaCl, 50mM Imidazole, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Glutamine Synthetase; GS; Glutamate Decarboxylase; Glutamate--Ammonia Ligase; GLUL; GLNS

## Immunogen Information:

**Sequence:** Thr 2-Asn373

## Background:

Glutamine Synthetase regulates intracellular concentration of glutamate. Glutamine Synthetase catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is an important source of energy and that takes part in cell proliferation, inhibition of apoptosis, and cell signaling. Glutamine Synthetase is expressed during early fetal stages, and has a role in maintaining body pH by removing ammonia from circulation. Mutations in the GLUL gene are related to congenital glutamine deficiency.