

## GLUL Protein, Cricetus griseus, Recombinant (His)

### General Information

Synonyms:	Glutamate--ammonia ligase;Palmitoyltransferase GLUL;Glutamine synthetase;GLUL;GS
Protein Construction:	2-373 aa
Species:	Chinese hamster
Expression Host:	E. coli
Accession:	P04773
Molecular Weight:	46.3 kDa (predicted)
AA Sequence:	ATSASSHLNKGKIQMYMSLPQGEKVQAMYIWDGTGEGLRCKTRTLDCPEKCV EELPEWNFDGSSTFQSESS NSDMYLSVPAMFRDPFRKEPNKLVFCEVFKYNQKPAETNLRHTCKRIMDMVSNQHPWFGMEQEYTLTGTD GHPFGWPSDGFPGPQGLYYCGVGADKAYRRDIMEAHYRACLYAGVKITGTYA EVKHAQWEFQIGPCEGIRM GDHLWVARFILHRVCKDFGVIATFDSKPIPGNWNAGCHTNFSTKTMREENGLKHIKEAIEKLSKRHRHIRA YDPKGGLDNARRLTGFHKTSNINDFSAGVADRSASIRIPRTVGQEKKGYFEARCPSANCDPFAVTEAIVRTCLL NETGDQPFQYKN

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Glutamine synthetase that catalyzes the ATP-dependent conversion of glutamate and ammonia to glutamine. Its role depends on tissue localization: in the brain, it regulates the levels of toxic ammonia and converts neurotoxic glutamate to harmless glutamine, whereas in the liver, it is one of the enzymes responsible for the removal of ammonia. Essential for proliferation of fetal skin fibroblasts. Independently of its glutamine synthetase activity, required for endothelial cell migration during vascular development: acts by regulating membrane localization and activation of the GTPase RHOJ, possibly by promoting RHOJ palmitoylation. May act as a palmitoyltransferase for RHOJ: able to autopalmitoylate and then transfer the palmitoyl group to RHOJ. Plays a role in ribosomal 40S subunit biogenesis.

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