

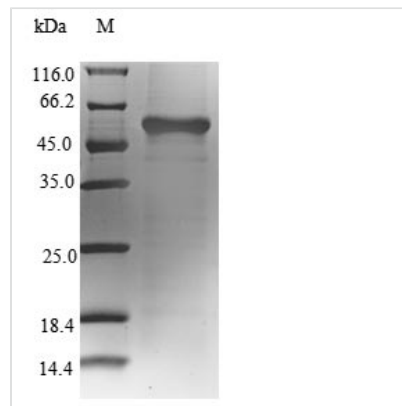


Recombinant *Cricetulus griseus* Glutamine synthetase (GLUL)

Product Code	CSB-EP009553DXU
Relevance	Essential for proliferation of fetal skin fibroblasts. This enzyme has 2 functions: it catalyzes the production of glutamine and 4-aminobutanoate (gamma-aminobutyric acid, GABA), the latter in a pyridoxal phosphate-independent manner (By similarity).
Abbreviation	Recombinant <i>Cricetulus griseus</i> GAPDH protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P04773
Alias	GS Glutamate decarboxylase Glutamate--ammonia ligase
Product Type	Recombinant Protein
Immunogen Species	<i>Cricetulus griseus</i> (Chinese hamster) (<i>Cricetulus barabensis griseus</i>)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ATSASSHLNKGIKQMYMSLPQGEKVQAMYIWVDGTGEGLRCKTRTLDCPEPKC VEELPEWNFDGSSTFQSESSNSDMYLSVPAMFRDPFRKEPNKLVFCEVFKYN QKPAETNLRHTCKRIMDMVSNQHPWFGMEQEYTLTGTDGHPFGWPSDGFPG PQGLYYCGVGADKAYRRDIMEAHYRACLYAGVKITGTYAEVKHAQWFEQIGP CEGIRMGDHLWVARFILHRVCKDFGVIATFDSKPIPGNWNAGCHTNFSTKTM REENGLKHIKEAIEKLSKRHRYHIRAYDPKGGLDNARRLTGFHKTSNINDFSAG VADRSASIRIPRTVGQEKKGYFEARCPSANCDPFAVTEAIVRTCLLNETGDQPF QYKN
Research Area	Neuroscience
Source	<i>E. coli</i>
Target Names	GLUL
Protein Names	Recommended name: Glutamine synthetase Short name= GS EC= 6.3.1.2 Alternative name(s): Glutamate decarboxylase EC= 4.1.1.15 Glutamate-- ammonia ligase
Expression Region	2-373aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	58.2kDa
Protein Length	Full Length of Mature Protein



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.