

Recombinant Full Length Human GLUL Protein, GST-tagged

Cat. No. GLUL-5361HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GLUL full-length ORF (AAH10037, 1 a.a. - 373 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	373 amino acids
Description	<p>Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling (Haberle et al., 2005 [PubMed 16267323]). Fetal glutamine requirements are very high and depend largely on active glutamine synthesis and the release of glutamine into the fetal circulation by the placenta.</p> <p>Glutamine synthetase (EC 6.3.1.2), also called glutamate-ammonia ligase (GLUL), is expressed throughout the body and plays an important role in controlling body pH and in removing ammonia from the circulation. The enzyme clears L-glutamate, the major neurotransmitter in the central nervous system, from neuronal synapses (see references in Clancy et al., 1996 [PubMed 8975719]).[supplied by OMIM</p>
Molecular Mass	66.77 kDa
AA Sequence	<p>MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLTLDSEPKCVEE LPEWNFDGSSTLQSEGSNSDMYLVAAMFRDPFRKDPNKLVLCEVFKYNRRPAET NLRHTCKRIMDMVSNQHPWFGMEQEYTLMGTDGHPFGWPSNGFPGPQGPYYCG VGADRAYGRDIVEAHYRACLYAGVKIAGTNAEVMPAQWEFQIGPCEGISMGDHLVW</p>

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ARFILHRVCEDFGVIAITFDPKPIPGNWNGAGCHTNFSTKAMREENGLKYIEEAIEKLS
 KRHQYHIRAYDPKGGLDNARRLTGFHETSNINDFSAGVANRSASIRIPRTVGQEKKG
 YFEDRRPSANCDPFSVTEALIRTCLLNETGDEPFQYKN

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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_001033044
Protein Refseq	NP_001028216

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MIM	138290
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UniProt ID	P15104
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