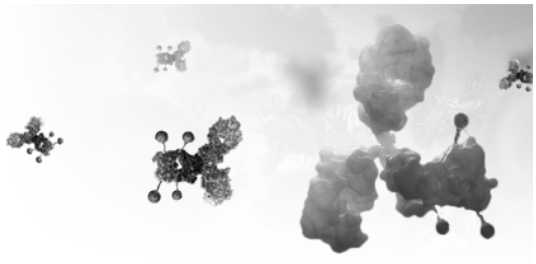

Mouse GLUL peptide (DAG-P1568)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia. Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling. This gene is expressed during early fetal stages, and plays an important role in controlling body pH by removing ammonia from circulation. Mutations in this gene are associated with congenital glutamine deficiency. Several alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2009]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the glutamine synthetase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	GLUL glutamate-ammonia ligase [Homo sapiens (human)]
Official Symbol	GLUL
Synonyms	GLUL; glutamate-ammonia ligase; GS; GLNS; PIG43; PIG59; glutamine synthetase; glutamine synthase; glutamate decarboxylase; glutamate--ammonia ligase; proliferation-inducing protein 43; cell proliferation-inducing protein 59;

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Entrez Gene ID	2752
mRNA Refseq	NM_001033044.2
Protein Refseq	NP_001028216.1
UniProt ID	A8YXX4
Chromosome Location	1q31
Pathway	Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Astrocytic Glutamate-Glutamine Uptake And Metabolism, organism-specific biosystem; Biosynthesis of amino acids, organism-specific biosystem; Biosynthesis of
Function	ATP binding; dynein light chain binding; glutamate binding; glutamate decarboxylase activity; glutamate-ammonia ligase activity; identical protein binding; magnesium ion binding; manganese ion binding;

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