Recombinant human Glutamine synthetase/GLUL protein

Catalog Number: ATGP3404

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-373aa

UniProt No.
P15104

NCBI Accession No.
NP_001028216.1

Alternative Names
Glutamine synthase, Glutamate-ammonia ligase, GLNS, Glutamate-ammonia ligase, GS, Palmitoyltransferase GLUL

PRODUCT SPECIFICATION

Molecular Weight
42 kDa (373aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1mM PMSF

Purity
> 85% by SDS-PAGE

Biological Activity
Specific activity is > 2.000pmol/min/ug, and is defined as the amount of enzyme that convert L-glutamate to L-glutamine per miunte at pH 7.5 at 37C in coupled system with PK/LDH.

Tag
Non-Tagged

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
GLUL also known as Glutamine synthetase. It is a trimetallic enzyme containing two divalent cation sites and one monovalent cation site per subunit. GLUL is able to regulate intracellular concentrations of glutamate and

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catalyzes the synthesis of glutamine form glutamate and ammonia. It is ubiquitously expressed in the human and plays a major role for many metabolic pathways such as cell proliferation, inhibition of apoptosis, and cell signaling. Recombinant Human GLUL was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

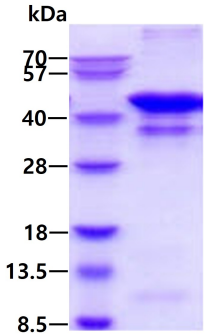
MTTSASSHLN KGIKQVYMSL PQGEKVQAMY IWIDGTGEGL RCKTRTLDSE PKCVEELPEW NFDGSSTLQS EGSNSDMYLV PAAMFRDPFR KDPNKLVLCE VFKYNRRPAE TNLRHTCKRI MDMVSNQHPW FGMEQEYTLM GTDGHPFGWP SNGFPGPQGP YYCGVGADRA YGRDIVEAHY RACLYAGVKI AGTNAEVMPA QWEFQIGPCE GISMGDHLWV ARFILHRVCE DFGVIATFDP KPIPGNWNGA GCHTNFSTKA MREENGLKYI EEAIEKLSKR HQYHIRAYDP KGGLDNARRL TGFHETSNIN DFSAGVANRS ASIRIPRTVG QEKKGYFEDR RPSANCDPFS VTEALIRTCL LNETGDEPFQ YKN

General References

Liaw SH., et al. (1995) Protein Sci. 4(11): 2358-65.
Vermeulen T., et al. (2008) Arch Biochem Biophys. 478(1): 96-102.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.