

RPPB5814

Product Information Protein Information

Product SKU:

RPPB5814

Accession:

P15104

Host:

Escherichia Coli.

Protein description:

GLUL Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 393 amino acids (1-373 a.a.) and having a molecular mass of 44.2 kDa. The GLUL is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Appearance:

Sterile filtered colorless solution.

Synonyms:

GLNS, EC 6.3.1.2, EC 4.1.1.15, GLUL, Glutamine Synthetase, GS, Glutamate decarboxylase, Glutamate--ammonia ligase, PIG43, PIG59.

Formulation:

GLUL Human solution containing 20mM Tris-HCl pH-8, 5mM DTT, 0.2M NaCl & 20% glycerol.

Purity:

Greater than 90.0% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SGLVPRGSH MTTASSHLN KGIKQVYMSL PQGEKVQAMY IWIDGTGEGE RCKTRTL DSE
PKCVELPEW NFDGSSTLQS EGSNSDMYLV PAAMFRDPFR KDPNKLVLCE VFKNRRPAE TNLRHTCKRI
MDMVSNQHPW FGMEQEYTLM GTDGHFPGWP SNGFPGPQGP YYCGVGADRA YGRDIVEAHY RACLYAGVKI
AGTNAEVMPA QWEFQIGPCE GISMGDHLWV ARFILHRVCE DFGVIATFDP KPIPGNWNGA GCHTNFSTKA
MREENGLKYI EEAIEKLSKR HQYHIRAYDP KGGLDNARRL TGFHETSIN DFSAGVANRS ASIRIPRTVG
QEKKGYFEDR RPSANCDPFS VTEALIRTCL LNETGDEPFQ YKN.

Biological Activity:

Specific activity is > 2,800 pmol/min/ug, and is defined as the amount of enzyme that convert 1.0 pmole of L-glutamate to L-glutamine per minute at pH 7.5 at 37C in coupled system with PK/LDH.