Glutamine Synthetase, human recombinant

CATALOG NO: P1067-10 10 µg
P1067-50 50 µg

ALTERNATE NAMES: GLNS, GS, PIG43, PIG59, GLUL

CONCENTRATION: 1 mg/ml (determined by Absorbance at 280nm)

SOURCE: *E. coli* (1-373aa)

PURITY: > 85% by SDS-PAGE

MOL. WEIGHT: 42 kDa (373aa), confirmed by MALDI-TOF

FORM: Liquid

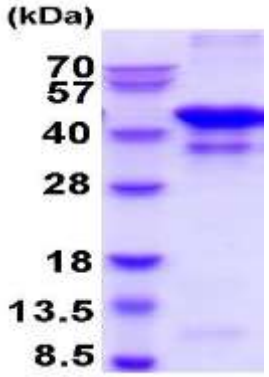
FORMULATION: In 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol 1 mM DTT, 0.1 mM PMSF

STORAGE CONDITIONS: Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.

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

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 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.

BIOLOGICAL ACTIVITY: Specific activity is > 2.000 pmol/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.



Human recombinant Glutamine Synthetase

RELATED PRODUCT:

- E. coli Recombinant Carbonic anhydrase **(Cat. No. P1049-10, -50)**
- Human CellExp™ Cystatin C, Human Recombinant (**Cat. No. 4878-10, -50)**
- Human CellExp™ GFRA1 /GDNFRA, human recombinant **(Cat. No. 7469-10, -50)**
- Human CellExp™ GFRA2 /GDNFRB, human recombinant **(Cat. No. 7470-20, -100)**

FOR RESEARCH USE ONLY! Not to be used on humans.