

Glutamate--cysteine ligase catalytic subunit (GCLC) Recombinant Protein | GCLC recombinant protein

Recombinant Human Glutamate--cysteine ligase catalytic subunit (GCLC)

CATALOG #
AAA113915

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Glutamate--cysteine ligase catalytic subunit (GCLC); Recombinant Human Glutamate--cysteine ligase catalytic subunit (GCLC); GCLC recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-637. Full Length
Sequence	MGLLSQGSPL SWEETKRHAD HVRRHGILQF LHIYHAVKDR HKDVLKWGDE VEYMLVSFDH ENKKVRLVLS GEKVLETLQE KGERTNPNHP TLWRPEYGSY MIEGTPGQPY GGTMSEFNTV EANMRKRRKE ATSILEENQA LCTITSFPRL GCPGFTLPEV KPNPVEGGAS KSLFFPDEAI NKHPRFSTLT RNIRHRRGEK VVINVPFKD KNTPSPFIET FTEDDEASRA SKPDHIYMDA MGFGMGNCCL QVTFQAC SIS EARYLYDQLA TICPIVMALS AASPFYRGYV SDIDCRWGI SASVDDRTRE ERGLEPLKNN NYRISKSR YD SIDSYLSKCG EKYNDIDLTI DKEIYEQLLQ EGIDHLLAQH VAHLFIRDPL TLFEKIHLD DANESDH FEN IQSTNWQTMR FKPPPPNSDI GWRVEFRPME VQLTDFENSA YVVFVLLTR VILSYKLDL IPLSKVDENM KVAQKRDAVL QGMFYFRKDI CKGGNAVVDG CGKAQNSTEL AAEEYTLMSI DTIINGKEGV FPGLIPILNS YLENMEVDVD TRCSILNYLK LIKKRASGEL MTVARWMREF IANHPDYKQD SVITDEM NYS LILKCNQIAN ELCECPELLG SAFRKVKYSG SKTDSSN
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for GCLC recombinant protein

Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. The gene encoding the catalytic subunit encodes a protein of 367 amino acids with a calculated molecular weight of 72.773 kDa and maps to chromosome 6. The regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	308199423
NCBI GeneID	2729
NCBI Accession #	NP_001184044.1
NCBI GenBank Nucleotide #	NM_001197115.1
UniProt Accession #	P48506; Q14399

Molecular Weight	72,766 Da
NCBI Official Full Name	glutamate--cysteine ligase catalytic subunit isoform b
NCBI Official Synonym Full Names	glutamate-cysteine ligase catalytic subunit
NCBI Official Symbol	GCLC
NCBI Official Synonym Symbols	GCL; GCS; GLCL; GLCLC
NCBI Protein Information	glutamate--cysteine ligase catalytic subunit
UniProt Protein Name	Glutamate--cysteine ligase catalytic subunit
UniProt Gene Name	GCLC
UniProt Synonym Gene Names	GLCL; GLCLC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gclc-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113915>