

Recombinant Full Length Human GCLC Protein

Cat. No. GCLC-192HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GCLC with a proprietary tag; Predicted MWt 96.14.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	637 amino acids
Description	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. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.
Form	Liquid
Molecular Mass	96.140kDa inclusive of tags
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

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Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name GCLC glutamate-cysteine ligase, catalytic subunit [Homo sapiens]

Official Symbol GCLC

Synonyms GCLC; glutamate-cysteine ligase, catalytic subunit; GLCL, GLCLC; glutamate--cysteine ligase catalytic subunit; GCS

Gene ID 2729

mRNA Refseq NM_001197115

Protein Refseq NP_001184044

MIM 606857

UniProt ID P48506

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