

Recombinant Human GCLC Protein, MYC/DDK-tagged

Cat. No. GCLC-668H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCLC fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
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	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	72.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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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; gamma-ECS; GCS heavy chain; gamma-glutamylcysteine synthetase; GCL; GLCL; GLCLC;
Gene ID	2729
mRNA Refseq	NM_001498
Protein Refseq	NP_001489
MIM	606857
UniProt ID	P48506

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