

Recombinant Human GCLC 293 Cell Lysate

Cat. No. GCLC-5983HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glutamate-cysteine ligase, catalytic subunit (GCLC) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; gamma-ECS; GCS heavy chain; gamma-glutamylcysteine synthetase; GCL; GLCL; GLCLC;

Gene ID

2729

mRNA Refseq

NM_001197115

Protein Refseq

NP_001184044

MIM

606857

UniProt ID

P48506

**Chromosome
Location**

6p12

Pathway

Biological oxidations, organism-specific biosystem; Glutathione biosynthesis, glutamate => glutathione, organism-specific biosystem; Glutathione biosynthesis, glutamate => glutathione, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;

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Function

ADP binding; ATP binding; coenzyme binding; glutamate binding; glutamate-cysteine ligase activity; glutamate-cysteine ligase activity; ligase activity; magnesium ion binding; nucleotide binding; protein heterodimerization activity;

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