

Product datasheet for TP307915L

GCLC (NM_001498) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Recombinant protein of human glutamate-cysteine ligase, catalytic subunit (GCLC), 1 mg **Description:** Species: Human HEK293T **Expression Host:** Expression cDNA Clone >RC207915 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s) MGLLSQGSPLSWEETKRHADHVRRHGILQFLHIYHAVKDRHKDVLKWGDEVEYMLVSFDHENKKVRLVLS GEKVLETLQEKGERTNPNHPTLWRPEYGSYMIEGTPGQPYGGTMSEFNTVEANMRKRRKEATSILEENQA LCTITSFPRLGCPGFTLPEVKPNPVEGGASKSLFFPDEAINKHPRFSTLTRNIRHRRGEKVVINVPIFKD KNTPSPFIETFTEDDEASRASKPDHIYMDAMGFGMGNCCLQVTFQACSISEARYLYDQLATICPIVMALS AASPFYRGYVSDIDCRWGVISASVDDRTREERGLEPLKNNNYRISKSRYDSIDSYLSKCGEKYNDIDLTI DKEIYEQLLQEGIDHLLAQHVAHLFIRDPLTLFEEKIHLDDANESDHFENIQSTNWQTMRFKPPPPNSDI GWRVEFRPMEVQLTDFENSAYVVFVVLLTRVILSYKLDFLIPLSKVDENMKVAQKRDAVLQGMFYFRKDI CKGGNAVVDGCGKAQNSTELAAEEYTLMSIDTIINGKEGVFPGLIPILNSYLENMEVDVDTRCSILNYLK LIKKRASGELMTVARWMREFIANHPDYKQDSVITDEMNYSLILKCNQIANELCECPELLGSAFRKVKYSG SKTDSSN **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-Myc/DDK Tag: Predicted MW: 72.6 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol Recombinant protein was captured through anti-DDK affinity column followed by conventional **Preparation:** chromatography steps. Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Storage: Store at -80°C.



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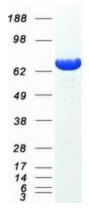
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	GCLC (NM_001498) Human Recombinant Protein – TP307915L
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 001489</u>
Locus ID:	2729
UniProt ID:	<u>P48506, Q14TF0</u>
RefSeq Size:	3823
Cytogenetics:	6p12.1
RefSeq ORF:	1911
Synonyms:	GCL; GCS; GLCL; GLCLC
Summary:	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.[provided by RefSeq, Oct 2010]
Protein Families:	Druggable Genome
Protein Pathway	s: Glutathione metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GCLC protein (Cat# [TP307915]). The protein was produced from HEK293T cells transfected with GCLC cDNA clone (Cat# [RC207915]) using MegaTran 2.0 (Cat# [TT210002]).

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