

Datasheet for ABIN7556819
GCLC Protein (AA 1-637) (His tag)



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Overview

Quantity:	1 mg
Target:	GCLC
Protein Characteristics:	AA 1-637
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCLC protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Gclc Protein expressed in mammalian cells.
Sequence:	MGLLSQGSPL SWEETQRHAD HVRRHGILQF LHIYHAVKDR HKDVLKWGDE VEYMLVSFDH ENRKVQLLLN GGDVLETLQE KGERTNP NHP TLWRPEYGSY MIEGTPGQPY GGTMSEFNTV EANMRKRRKE ATSVLGEHQA LCTITSFPR L GCPGFTLPEH RPNPEEGGAS KSLFFPDEAI NKHPRFGTLT RNIRHRRGEK VVINVPFKD KNTSPFVET FPEDAEASKA SQPDHIYMDA MGFGMGNCCL QVTFQAC SIS EARLYDQLA TICPIVMALS AASPFYRGYV SDIDCRWGV I SASVDDRTRE ERGLEPLKNN RFRISKSR YD SIDSYLSKCG EK YNDID LTI DKEIYEQLLE EGIDHLLAQH VAHLFIRDPL TLFEEKIHL D DANESDH FEN IQSTNWQTMR FKPPPPNSDI GWRVEFRPME VQLTDFENSA YVVFVLLTR VILSYKLDLFL IPLSKVDENM KVAQKRDAVL QGMFYFRKDI CKGGNAVVDG CSKAQSSSEP AAEEYTLMSI DTIINGKEGV FPGLIPILNS YLENMEVDVD TRCSILNYLK LIKKRASGEL M TVARWMREF IANHPDYKQD SVITDEINYS LIWKCNIAD ELCEPELLG SGFRKAKYSG GKSDPSA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity

Product Details

of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: GCLC

Alternative Name: Gclc ([GCLC Products](#))

Background: Glutamate--cysteine ligase catalytic subunit (EC 6.3.2.2) (GCS heavy chain) (Gamma-ECS) (Gamma-glutamylcysteine synthetase),FUNCTION: Catalyzes the ATP-dependent ligation of L-glutamate and L-cysteine and participates in the first and rate-limiting step in glutathione biosynthesis. {ECO:0000269|PubMed:16608839}.

Molecular Weight: 72.6 kDa

UniProt: [P97494](#)

Pathways: [Cell RedoxHomeostasis](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months