

# Recombinant Human CHGA Protein, Full Length, C-His tagged

**Cat. No.** CHGA-21HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CHGA (Full Length), fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. It is found in secretory vesicles of neurons and endocrine cells. This gene product is a precursor to three biologically active peptides; vasostatin, pancreastatin, and parastatin. These peptides act as autocrine or paracrine negative modulators of the neuroendocrine system. Two other peptides, catestatin and chromofungin, have antimicrobial activity and antifungal activity, respectively. Two transcript variants encoding different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 49.7 kDa (calculated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | LPVNSPMNKGDTEVMKCIVEVISDTLSKPSPMPVSQECFETLRGDERILSILRHQNLL<br>KELQDLALQGAKERAHQKKHSGFEDELSEVLENQSSQAEKAEVEEPSSKDVME<br>KREDSKEAEKSGEATDGARPQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPP<br>ASLPSQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQAKREEEEEEEEEAEAGE<br>EAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEEAQDPEGKGEQ                                                                                                                                                                                                                                                                                                                  |

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|                             |                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | <p>EHSQQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKE<br/> LTAEKRLLEGQEEEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWRPSSREDSLEAG<br/> LPLQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQLQALRRGHHHHH<br/> H</p>                                                                                                                                             |
| <b>Endotoxin</b>            | < 1.0 EU/μg                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>               | > 90 % by SDS-PAGE                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>         | Western blotting, ELISA                                                                                                                                                                                                                                                                                                                       |
| <b>Quality Control Test</b> | <p>BCA to determine quantity of the protein.</p> <p>SDS PAGE to determine purity of the protein. Endotoxin level determination.</p>                                                                                                                                                                                                           |
| <b>Notes</b>                | This product is intended for research use only.                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>              | <p>Store lyophilized protein at -80 centigrade. Lyophilized protein remains stable until the expiry date when stored at -80 centigrade. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 centigrade for long term storage.</p> <p>Reconstituted protein can be stored at 4 centigrade for a week.</p> |
| <b>Storage Buffer</b>       | Filtered (0.4 μm) and lyophilized from 0.5 mg/mL solution in phosphate buffered saline, pH 7.0.                                                                                                                                                                                                                                               |
| <b>Shipping</b>             | At ambient temperature.                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution</b>       | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.                                                                                                                                                                                                        |
| <b>GenelD</b>               | 1113                                                                                                                                                                                                                                                                                                                                          |

## GENE INFORMATION

**Gene Name** CHGA chromogranin A [ Homo sapiens (human) ]

**Official Symbol** CHGA

**Synonyms** CHGA; chromogranin A; CGA; PHE5; PHES; chromogranin-A; SP-I; betagranin (N-terminal fragment of chromogranin A); catestatin; chromofungin; parathyroid secretory protein 1; pituitary secretory protein I

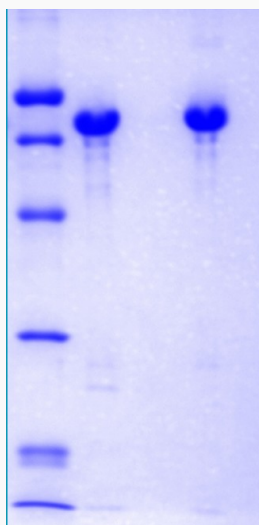
**mRNA Refseq** NM\_001275

**Protein Refseq** NP\_001266

**MIM** 118910

**UniProt ID** P10645

**SDS-PAGE**



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12 % SDS-PAGE separation of Human Chromogranin A:

M.W. marker – 14, 21, 31, 45, 66, 97 kDa

Reduced and boiled sample, 2.5 µg/lane

Non-reduced and non-boiled sample, 2.5 µg/lane

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