

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

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

SPECIFICATION

Product Overview	Recombinant human CHGA (Full Length), fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	Full Length
Description	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.
Molecular Mass	49.7 kDa (calculated)
AA Sequence	LPVNSPMNKGDTEVMKCIVEVISDTLSKPSPMPVVSQECFETLRGDERILSILRHQNL KELQDLALQGAKERAHQKKHSGFEDELSEVLENQSSQAELKEAVEEPSSKDVME KREDSKEAEKSGEATDGARPQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPP ASLPSQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQAKREEEEEEEEEAEAGE EAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEEEAQDPEGKGEQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EHSQQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKE
 LTAEKRLEGQEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWRPSSREDSLEAG
 LPLQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQLQALRRGHHHHH
 H

Endotoxin < 1.0 EU/μg

Purity > 90 % by SDS-PAGE

Applications Western blotting, ELISA

Quality Control Test BCA to determine quantity of the protein.
 SDS PAGE to determine purity of the protein. Endotoxin level determination.

Notes This product is intended for research use only.

Storage 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. Reconstituted protein can be stored at 4 centigrade for a week.

Storage Buffer Filtered (0.4 μm) and lyophilized from 0.5 mg/mL solution in phosphate buffered saline, pH 7.0.

Shipping At ambient temperature.

Reconstitution Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.

GenelD 1113

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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

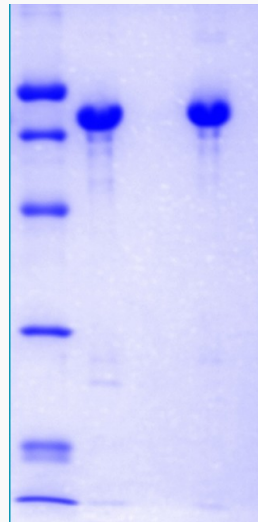
mRNA Refseq NM_001275

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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