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

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

SPECIFICATION

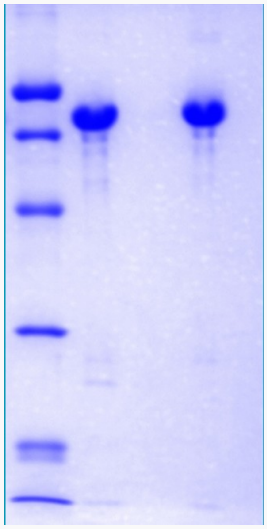
Product Overview	Recombinant human CHGA (Full Length), fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	Full Length
Description	The protein encoded by this gene is a member of the chromogranin/secretogranin 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	LPVNSPMNKGDTEVMKCIVEVISDTLSKPSPMPVSQECFETLRGDERILSILRHQNLL KELQDLALQGAKERAHQQKKHSGFEDELSEVLENQSSQAELKEAVEEPSSKDVME KREDSKEAEKSGEATDGARPQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPP ASLPSQKYPGPQAEGDSEGLSQGLVDREKGLSAEPGWQAKREEEEEEEEEAEAGE EAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEEAQDPEGKGEQ

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	EHSQQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRLEGQEEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWRPSSREDSLEAGLPLQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQLQALRRGHHHHHH
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.
GeneID	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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