

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

Cat. No. CHGA-20HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CHGA (Full Length), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
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.
Form	Liquid
Molecular Mass	50 kDa (448aa)
AA Sequence	LPVNSPMNKGDTVMKCIVEVISDTLSKPSPMPVSQECFETLRGDERILSILRHQNL KELQDLALQGAKERAHQKKHSGFEDELSEVLENQSSQAELKEAVEEPSSKDVME

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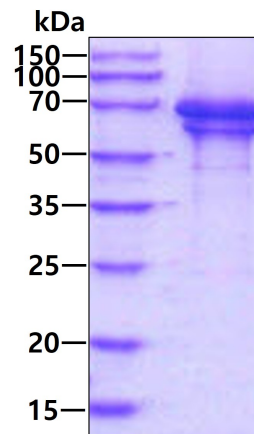
KREDSKEAEKSGEATDGARPQALPEPMQESKAEGNNQAPGEEEEEEEEATNTHPP
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 EAVPEEEGPTVVLNPHPSLGYKEIRKGESRSEALAVDGAGKPGAEAAQDPEGKGEQ
 EHSQQKEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKE
 LTAEKRLEGQEEEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWRPSSREDSLEAG
 LPLQVRGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQLQALRRG

Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 0.1mM PMSF
GenelD	1113
References	<ol style="list-style-type: none"> 1. Nikoopour E., et al. (2011) J Immunol. 186:3831-3835. 2. Stadinski BD., et al. (2010) Nat Immunol. 11:225-231.

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

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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