

Recombinant Human Chromogranin A, His-tagged

Cat. No. CHGA-411H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Chromogranin A, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography, 53.3 kDa (477aa)
Species	Human
Source	E.coli
ProteinLength	19-457 aa
Description	Chromogranin A is a member of the chromogranin/secretogranin (granins) family of neuroendocrine secretory proteins. Chromogranin A (CgA) represents the major soluble protein co-stored and co-released with catecholamines, within chromaffin cells secretory granules. Chromogranin A is the precursor to several functional peptides including vasostatin, pancreastatin, catestatin and parastatin. It is considered a diagnostic and prognostic marker of several diseases, including a variety of tumours and cardiac heart failure.
Purity	> 85% by SDS - PAGE
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMLP VNSPMNKGDT EVMKCIVEVI SDTLSPKSPM PVSQECFETL RGDERILSIL RHQNLLKELQ DLALQGAKER AHQQKKHSGF EDELSEVLEN QSSQAELEKEA VEEPSSKDVM EKREDSKEAE KSGEATDGAR PQALPEPMQE SKAEGNNQAP GEEEEEEEEEA TNTHPPASLP SQKYPGPQAE GDSEGLSQGL VDREKGLSAE PGWQAKREEE EEEEEEAEAG EEAVPEEEEGP TVVLNPHPSL GYKEIRKGES RSEALVDGA

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GKPGAEAAQD PEGKGGEQHS QQKEEEEEMA VVPQGLFRGG KSGELEQEEE
 RLSKEWEDSK RWSKMDQLAK ELTAEKRLG QEEEDNRDS SMKLSFRARA
 YGFRGPGPQL RRGWRPSSRE DSLEAGLPLQ VRGYPEEKKE EEGSANRRPE
 DQELESLSAI EAELEKVAHQ LQALRRG

Concentration 0.5 mg/ml (determined by Bradford assay)

Form Liquid. In 20mM MES buffer (pH 6.0) containing 2mM EDTA, 0.1mM PMSF, 10% glycerol

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name CHGA chromogranin A (parathyroid secretory protein 1) [Homo sapiens]

Synonyms CHGA; chromogranin A (parathyroid secretory protein 1); CGA; vasostatin; pancreastatin; parastatin; chromogranin A; parathyroid secretory protein 1; betagranin (N-terminal fragment of chromogranin A); SP-I; Pituitary secretory protein I

Gene ID 1113

mRNA Refseq NM_001275

Protein Refseq NP_001266

MIM 118910

UniProt ID P10645

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Chromosome Location	14q32
Function	calcium ion binding