

Recombinant human Chromogranin A/CHGA protein

Catalog Number: ATGP0323

PRODUCT INFORMATION

Expression system

E.coli

Domain

19-457aa

UniProt No.

P10645

NCBI Accession No.

NP_001266.1

Alternative Names

Cga, Pituitary secretory protein I, SP-I, Vasostatin-1, Vasostatin-2, EA-92, ES-43, Pancreastatin, parastatin, PHE5, PHES, SS-18, WA-8, WE-14, LF-19, Catestatin 2, SL21, AL-11, GV-19, GR-44, ER-37, GE-25, Serpinin-RRG, Serpinin, p-Glu serpinin precursor

PRODUCT SPECIFICATION

Molecular Weight

51.2 kDa (460aa) (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA, 0.1mM PMSF, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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and prognostic marker of several diseases, including a variety of tumours and cardiac heart failure. Recombinant human Chromogranin A, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>LPVNSPMNK GDTEVMKCIV EVISDTLSKP SPMPVSQECF ETLRGDERIL SILRHQNLLK ELQDLALQGA KERAHQQKKH SGFEDELSEV LENQSSQAEL KEAVEEPSSK DVMEKREDSK EAEKSGEATD GARPQALPEP MQESKAEGNN QAPGEEEEEE EEATNTHPPA SLPSQKYPGP QAEGDSEGLS QGLVDREKGL SAEPGWQAKR EEEEEEEEA EAGEEAVPEE EGPTVVLNPH PSLGYKEIRK GESRSEALAV DGAGKPGAEE AQDPEGKGEQ EHSQQKEEEE EMAVVPQGLF RGGKSGELEQ EEERLSKEWE DSKRWSKMDQ LAKELTAEKR LEGQEEEEEDN RDSSMKLSFR ARAYGFRGPG PQLRRGWRPS SREDSLEAGL PLQVRGYPEE KKEEEGSANR RPEDQELESL SAIEAELEKV AHQLQALRRG

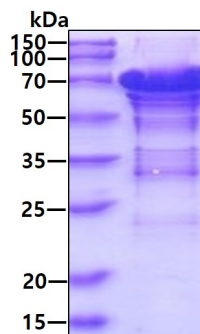
General References

Montero-Hadjadje M., et al. (2009). *J Biol Chem.* 284(18):12420-31.

Hendy GN., et al. (1995). *Clin Invest Med.* 18(1):47-65

DATA

SDS-PAGE



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