

## Chromogranin-A Recombinant Protein | CHGA recombinant protein

Chromogranin-A, 19-457aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48537</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

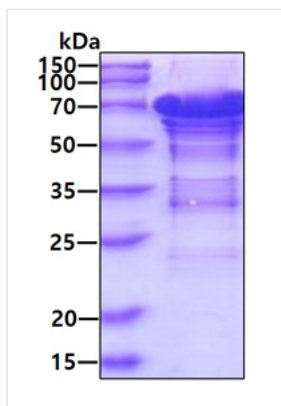
### PRODUCT SYNONYMS

Chromogranin-A; 19-457aa; Human; His tag; E Coli; CgA; CHGA; Pituitary secretory protein I (SP1); beta Granin; CHG A; Chromogranin A precursor; SP I; Chromogranin A parathyroid secretory protein 1; ChromograninA; Pancreastatin; Parastatin; Parathyroid secretory protein 1; SP1; SPI; Vasostatin; Pituitary secretory protein I; ; CHGA recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification                                  | > 80% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                          | Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA, 0.1mM PMSF, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration                                        | 0.5 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence                                             | MGSSHHHHH SSSLVPRGSH MLPVNSPMNK GDTEVMKCIV EVISDTLSKP SPMPVSQECF ETLRGDERIL<br>SILRHQNLK ELQDLALQGA KERAHQQKKH SGFEDELSEV LENQSSQAEI KEAVEEPSSK DVMKREDISK<br>EAEKSGEATD GARPQALPEP MQESKAEGNN QAPGEEEEEE EEATNTHPPA SLPSQKYPGP QAEGDSEGLS<br>QGLVDREKGL SAEPGWQAKR EEEEEEEEEE EAGEEAVPEE EGPTVVLNPH PSLGYKEIRK GESRSEALAV<br>DGAGKPGAAE AQDPEGKGEQ EHSQQKEEEE EMAVVPQGLF RGGKSGELEQ EEERLSKEWE DSKRWSKMDQ<br>LAKELTAEKR LEGQEEEEED RDSSMKLSFR ARAYGFRGPG PQLRRGWRPS SREDSLEAGL PLQVRGYPEE<br>KKEEEGSANR RPEDQELESL SAIEAELEKV AHQLQALRRG |
| Sequence Length                                      | 457                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for CHGA recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag Information                                      | His-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                              | Can be stored at 2°C to 8°C for 1 week.<br>For long term storage, aliquot and store at -20°C to -80°C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



#### SDS-PAGE

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

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CHGA recombinant protein | 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 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. |
| Product Categories/Family for CHGA recombinant protein   | Cancer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| NCBI GI #                        | 4502805                                                            |
| NCBI GeneID                      | 1113                                                               |
| NCBI Accession #                 | NP_001266                                                          |
| NCBI GenBank Nucleotide #        | NM_001275.3                                                        |
| UniProt Accession #              | P10645; Q53FA8; Q6NR84; Q96E84; Q96GL7; Q9BQB5; B2R9E9             |
| Molecular Weight                 | 51.2 kDa (460aa) (Molecular weight on SDS-PAGE will appear higher) |
| NCBI Official Full Name          | chromogranin-A isoform 1 preproprotein                             |
| NCBI Official Synonym Full Names | chromogranin A                                                     |
| NCBI Official Symbol             | CHGA                                                               |
| NCBI Official Synonym Symbols    | CGA                                                                |
| NCBI Protein Information         | chromogranin-A                                                     |
| UniProt Protein Name             | Chromogranin-A                                                     |
| UniProt Gene Name                | CHGA                                                               |
| UniProt Synonym Gene Names       | CgA; SP-I                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.