

## CHGA Human, His

**Description:** Recombinant Human CHGA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 460 amino acids (19-457 a.a) and having a molecular mass of 51.2kDa (Molecular weight on SDS-PAGE will appear higher). Chromgranin-A is fused to 21 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-706

For research use only.

**Synonyms:** CGA, CHGA, Vasostatin-2, Pituitary secretory protein I, SP-I.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MLPVNSPMNK GDTEVMKCIV  
EVIDTSLSKP SPMPVSQECF ETLRGDERIL SILRHQNLK ELQDLALQGA KERAHQQKKH  
SGFEDELSEV LENQSSQAEK KEAVEEPSSK DVMEKREDSK EAEKSGEATD GARPQALPEP  
MQESKAEGNN QAPGEEEEEE EEATNTHPPA SLPSQKYPGP QAEGDSEGLS QGLVDREKGL  
SAEPGWQAKR EE

**Purity:** Greater than 80.0% as determined by Analysis by SDS-PAGE.

**Formulation:**

The CHGA protein contains 20mM MES buffer pH-6, 2mM EDTA, 0.1mM PMSF and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Chromgranin-A is part of the neuroendocrine secretory protein family. CHGA is located in secretory vesicles of neurons and endocrine cells. Chromgranin-A 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. Other peptides, including chromostatin, beta-granin, WE-14 and GE-25, are also derived from the full-length protein. Chromgranin-A has numerous biological activities on some tissues and organs and exerts a large spectrum of homeostatic actions, including antifungal and antimicrobial effect, modulation of cell adhesion, and inhibition of parathyroid hormone secretion.

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