
Product Data Sheet

Product Name: CHGA Human, His
 Cat. No.: GP23144
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CGA; CHGA; Vasostatin-2; Pituitary secretory protein I; SP-I.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLPVNSPMNK GDTEVMKCIV EVISDTLSKP SPMPVSQECF ETLRGDERIL SILRHQNLK ELQDLALQGA KERAHQQKH SGFEDELSEV LENQSSQAEL KEAVEEPSSK DVMEKREDSK EAEKSGEATD GARPQALPEP MQESKAEGNN QAPGEEEEEE EEATNTHPPA SLPSQKYPGP QAEGDSEGLS QGLVDREKGL SAEPGWQAKR EEEEEEEEA EAGEEAVPEE EGPTVVLNPH PSLGYKEIRK GESRSEALAV DGAGKPGAE E AQDPEGKGEQ EHSQQKEEEE EMAVVPQGLF RGGKSGELEQ EEERLSKEWE DSKRWSKMDQ LAKELTAEKR LEGQEEEEEDN RDSSMKLSFR ARAYGFRGPG PQLRRGWRPS SREDSLEAGL PLQVRGYPEE KKEEEGSANR RPEDQELESL SAIEAELEKV AHQLQALRRG.		
Formulation	The CHGA protein contains 20mM MES buffer pH-6, 2mM EDTA, 0.1mM PMSF and 10% glycerol.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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