
Product Data Sheet

Product Name: CHGA Human
Cat. No.: GP23142
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	MLPVNSPMNK GDTEVMKCIV EVISDTLSKP SPMPVSQECF ETLRGDERIL SILRHQNLLK ELQDLALQGA KERAHQQKKH SGFEDELSEV LENQSSQAEL KEAVEEPSSK DVME.		
Formulation	The CHGA protein contains 20mM Tris-HCl buffer pH-8, 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

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 114 amino acids (19-131 a.a) and having a molecular mass of 12.8 kDa. Chromgranin-A is purified by proprietary chromatographic techniques.

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

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