
Product Data Sheet

Product Name: CHGA Human, Sf9

Cat. No.: GP23145

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CHGA; CGA; Chromogranin-A; Vasostatin I; SP-I; Pituitary secretory protein I.		
Amino Acid Sequence	ADLLPVNSPM NKGDTVEVMKC IVEVISDTLS KPSPMPVSQE CFETLRGDER ILSILRHQNL LKELQDLALQ GAKERAHQQK KHSGFEDELS EVLENQSSQA ELKEAVEEPS SKDVMKRED SKEAEKSGEA TDGARPQALP EPMQESKAEG NNQAPGEEEE EEEEATNTHP PASLPSQKYP GPQAEGDSEG LSQGLVDREK GLSAEPGWQA KREEEEEEEEE EAEAGEEAVP EEEGPTVVLN PHPSLGYKEI RKGESRSEAL AVDGAGKPGA EEAQDPEGKG EQEHSQQKEE EEEMAVVPQG LFRGGKSGEL EQEEERLSKE WEDSKRWSKM DQLAKELTAE KRLEGQEEEE DNRDSSMKLS FRARAYGFRG PGPQLRRGWR PSSREDSLEA GLPLQVRGYP EEKKEEEGSA NRRPEDQELE SLSAIEAELE KVAHQQLQALR RGHHHHHH.		
Formulation	CHGA protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4), 20% glycerol & 0.1mM PMSF.		

Introduction

Chromogranin-A Isoform 1 Preproprotein or CHGA is part of the neuroendocrine secretory proteins of the chromogranin/secretogranin family. CHGA is a precursor of numerous enzymes such as pancreastatin, catestatin, vasostatin-1, vasostatin-2, and parastatin. The protein acts as a negative regulator the neuroendocrine activity of autocrine or nearby cells (paracrine). CHGA causes further production of secretory granules that contains insulin in pancreatic islet beta cells.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CHGA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (19-457 a.a.) and fused to a 6 aa His Tag at C-terminus containing a total of 448 amino acids and having a molecular mass of 50kDa. CHGA shows multiple bands between 50-70kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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