

AR09204PU-N

Human Chromogranin A (19-457, His-tag) - Purified

Alternate names:

CHGA, CgA, Chromogranin-A, Pituitary secretory protein I, SP-I

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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 diagnostic and prognostic marker of several diseases, including a variety of tumours and cardiac heart failure.

Uniprot ID:
[P10645](#)
NCBI:
[NP_001266](#)
GeneID:
[1113](#)
Species:

Human

Source:

E. coli

Format:
State: Liquid purified protein

Purity: >80% by SDS - PAGE

Buffer System: 20mM Tris-HCl (pH 7.5) containing 2mM EDTA, 0.1mM PMSF, 10% Glycerol

Description:

Recombinant human Chromogranin A, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MLPVNSPMNK GDTEVMKCIV EVISDTLSKP SPMPVSQECF
ETLRGDERIL SILRHQNLK ELQDLALQGA KERAHQQKKH SGFEDELSEV LENQSSQAEI
KEAVEEPSSK DVMEKREDSK EAEKSGEATD GARPQALPEP MQESKAEGNN QAPGEEEEEE
EEATNTHPPA SLPSQKYPGP QAEGDSEGLS QGLVDREKGL SAEPGWQAKR EEEEEEEEA
EAGEEAVPEE EGPTVVLNPH PSLGYKEIRK GESRSEALAV DGAGKPGAE A QDPEGKGEQ
EHSQQKEEEE EMVVPQGLF RGGKSGELEQ EEERLSKEWE DSKRWSKMDQ LAKELTAEKR
LEGQEEEEEDN RDSSMKLSFR ARAYGFRGPG PQLRRGWRPS SREDSLEAGL PLQVRGYPEE
KKEEEGSANR RPEDQELES SAIEAELEKV AHQLQALRRG

Molecular weight: 51.2 kDa (460 aa)

(Molecular weight on SDS-PAGE will appear higher).

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Ohyama C. et al. (1998) J Biol Chem. 273: 14582-14587. Moriwaki K. et al. (2009) Gastroenterology 137: 188-198.

Pictures:

Recombinant human Chromogranin-A,
19-457aa, His-tagged

