

CHGA Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71727
Synonyms:	beta Granin; catestatin; CgA; CHG A; ChromograninA; ER-37; SPI; vasostatin 2; Vasostatin; Vasostatin I; Vasostatin II; vasostatin-2
Species:	Human
Source:	P. pastoris
Accession:	P10645 (19L-457G)
Gene ID:	1113
Molecular Weight:	Approximately 50.9 kDa

PROPERTIES

AA Sequence

L P V N S P M N K G	D T E V M K C I V E	V I S D T L S K P S	P M P V S Q E C F E
T L R G D E R I L S	I L R H Q N L L K E	L Q D L A L Q G A K	E R A H Q Q K K H S
G F E D E L S E V L	E N Q S S Q A E L K	E A V E E P S S K D	V M E K R E D S K E
A E K S G E A T D G	A R P Q A L P E P M	Q E S K A E G N N Q	A P G E E E E E E E
E A T N T H P P A S	L P S Q K Y P G P Q	A E G D S E G L S Q	G L V D R E K G L S
A E P G W Q A K R E	E E E E E E E E A E	A G E E A V P E E E	G P T V V L N P H P
S L G Y K E I R K G	E S R S E A L A V D	G A G K P G A E E A	Q D P E G K G E Q E
H S Q Q K E E E E E	M A V V P Q G L F R	G G K S G E L E Q E	E E R L S K E W E D
S K R W S K M D Q L	A K E L T A E K R L	E G Q E E E E D N R	D S S M K L S F R A
R A Y G F R G P G P	Q L R R G W R P S S	R E D S L E A G L P	L Q V R G Y P E E K
K E E E G S A N R R	P E D Q E L E S L S	A I E A E L E K V A	H Q L Q A L R R G

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CHGA protein exerts a strong inhibitory effect on glucose-induced insulin release from the pancreas. It functions as a non-competitive nicotinic cholinergic antagonist, inhibiting catecholamine release from chromaffin cells and noradrenergic

neurons. Additionally, CHGA displays antibacterial activity against both Gram-positive (*S. aureus* and *M. luteus*) and Gram-negative bacteria (*E. coli* and *P. aeruginosa*). Moreover, it has the capacity to induce mast cell migration, degranulation, and the production of cytokines and chemokines. Furthermore, CHGA acts as a potent scavenger of free radicals in vitro and may play a role in the regulation of cardiac function and blood pressure.

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

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