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Datasheet for ABIN3091816 Chromogranin A Protein (CHGA) (AA 19-457) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Chromogranin A (CHGA)
Protein Characteristics:	AA 19-457
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Chromogranin A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	LPVNSPMNKG DTEVMKCIVE VISDTLSKPS PMPVSQECFE TLRGDERILS ILRHQNLLKE
	LQDLALQGAK ERAHQQKKHS GFEDELSEVL ENQSSQAELK EAVEEPSSKD VMEKREDSKE
	AEKSGEATDG ARPQALPEPM QESKAEGNNQ APGEEEEEEE EATNTHPPAS LPSQKYPGPQ
	AEGDSEGLSQ GLVDREKGLS AEPGWQAKRE EEEEEEEAE AGEEAVPEEE GPTVVLNPHP
	SLGYKEIRKG ESRSEALAVD GAGKPGAEEA QDPEGKGEQE HSQQKEEEEE MAVVPQGLFR
	GGKSGELEQE EERLSKEWED SKRWSKMDQL AKELTAEKRL EGQEEEEDNR DSSMKLSFRA
	RAYGFRGPGP QLRRGWRPSS REDSLEAGLP LQVRGYPEEK KEEEGSANRR PEDQELESLS
	AIEAELEKVA HQLQALRRG
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human CHGA Protein (raised in E. Coli) purified by multi-step, protein-specific process to

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Grade:	Crystallography grade
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purification:	 Two step purification of proteins expressed in bacterial culture: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our
	ensure crystallization grade.State-of-the-art algorithm used for plasmid design (Gene synthesis).

Product Details

Chromogranin A (CHGA) Target: CHGA (CHGA Products) Alternative Name:

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Target Details		
Background:	Pancreastatin: Strongly inhibits glucose induced insulin release from the pancreas., Catestatin:	
	Inhibits catecholamine release from chromaffin cells and noradrenergic neurons by acting as a	
	non-competitive nicotinic cholinergic antagonist (PubMed:15326220). Displays antibacterial	
	activity against Gram-positive bacteria S.aureus and M.luteus, and Gram-negative bacteria	
	E.coli and P.aeruginosa (PubMed:15723172 and PubMed:24723458). Can induce mast cell	
	migration, degranulation and production of cytokines and chemokines (PubMed:21214543).	
	Acts as a potent scavenger of free radicals in vitro (PubMed:24723458). May play a role in the	
	regulation of cardiac function and blood pressure (PubMed:18541522).	
	{ECO:0000269 PubMed:15326220, ECO:0000269 PubMed:15723172,	
	EC0:0000269 PubMed:21214543, EC0:0000269 PubMed:24723458,	
	ECO:0000303 PubMed:18541522}., Serpinin: Regulates granule biogenesis in endocrine cells by	
	up-regulating the transcription of protease nexin 1 (SERPINE2) via a cAMP-PKA-SP1 pathway.	
	This leads to inhibition of granule protein degradation in the Golgi complex which in turn	
	promotes granule formation. {ECO:0000250 UniProtKB:P26339}.	
Molecular Weight:	49.9 kDa Including tag.	
UniProt:	P10645	
Pathways:	Negative Regulation of Hormone Secretion, cAMP Metabolic Process, Regulation of G-Protein	
	Coupled Receptor Protein Signaling	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process