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## Datasheet for ABIN3090937 CBS Protein (AA 2-551) (His tag)



Overview

Quantity:	1 mg
Target:	CBS
Protein Characteristics:	AA 2-551
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	FVAAQERDQK
	VIYKQFKQIR LTDTLGRLSH ILEMDHFALV VHEQIQYHST GKSSQRQMVF GVVTAIDLLN
	PLTVLPTITC GHTIEILREK GFDQAPVVDE AGVILGMVTL GNMLSSLLAG KVQPSDQVGK
	QELQEGQRCV VILPDSVRNY MTKFLSDRWM LQKGFLKEED LTEKKPWWWH LRVQELGLSA
	EVEGIGYDFI PTVLDRTVVD KWFKSNDEEA FTFARMLIAQ EGLLCGGSAG STVAVAVKAA
	QQCDGKLDML VASVGTGGTI TGIARKLKEK CPGCRIIGVD PEGSILAEPE ELNQTEQTTY
	RALGAEIVRT PTNARFDSPE SHVGVAWRLK NEIPNSHILD QYRNASNPLA HYDTTADEIL
	ISLRMIEDAE RDGTLKPGDT IIEPTSGNTG IGLALAAAVR GYRCIIVMPE KMSSEKVDVL
	ESPHHHTAPA KSPKILPDIL KKIGDTPMVR INKIGKKFGL KCELLAKCEF FNAGGSVKDR
Sequence:	PSETPQAEVG PTGCPHRSGP HSAKGSLEKG SPEDKEAKEP LWIRPDAPSR CTWQLGRPAS

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<ul> <li>Characteristics:</li> <li>Made in Germany - from design to production - by highly experienced protein experts</li> <li>Human CBS Protein (raised in Insect Cells) purified by multi-step, protein-specific proensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> <li>This protein is a made to order protein and will be made for the first time for your order.</li> </ul>	cess to Our
This protein is a made to order protein and will be made for the first time for your order.	
	stom
experts in the lab will ensure that you receive a correctly folded protein.	stom
The big advantage of ordering our made-to-order proteins in comparison to ordering cu	
made proteins from other companies is that there is no financial obligation in case the	protein
cannot be expressed or purified.	
In the unlikely event that the protein cannot be expressed or purified we do not charge a	nything
(other companies might charge you for any performed steps in the expression process	for
custom-made proteins, e.g. fees might apply for the expression plasmid, the first expres	sion
experiments or purification optimization).	
When you order this made-to-order protein you will only pay upon receival of the correct	ly
folded protein. With no financial risk on your end you can rest assured that our experien	ced
protein experts will do everything to make sure that you receive the protein you ordered	
The concentration of our recombinant proteins is measured using the absorbance at 28	0nm.
The protein's absorbance will be measured in several dilutions and is measured against	its
specific reference buffer.	
The concentration of the protein is calculated using its specific absorption coefficient.	Ve use
the Expasy's protparam tool to determine the absorption coefficient of each protein.	
Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells:	
<ol> <li>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.</li> <li>Protein containing fractions of the best purification are subjected to second purification</li> </ol>	<u>)</u>
through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE Western blot.	
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility: 0.22 µm filtered	
Endotoxin Level: Protein is endotoxin free.	
Grade: Crystallography grade	

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## Target Details

Target:	CBS
Alternative Name:	CBS (CBS Products)
Background:	Hydro-lyase catalyzing the first step of the transsulfuration pathway, where the hydroxyl group
	of L-serine is displaced by L-homocysteine in a beta-replacement reaction to form L-
	cystathionine, the precursor of L-cysteine. This catabolic route allows the elimination of L-
	methionine and the toxic metabolite L-homocysteine (PubMed:23981774, PubMed:20506325,
	PubMed:23974653). Also involved in the production of hydrogen sulfide, a gasotransmitter with
	signaling and cytoprotective effects on neurons (By similarity).
	{ECO:0000250 UniProtKB:P32232, ECO:0000269 PubMed:20506325,
	EC0:0000269 PubMed:23974653, EC0:0000269 PubMed:23981774}.
Molecular Weight:	61.4 kDa Including tag.
UniProt:	P35520
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.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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