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CREB3L2 Protein (AA 1-521) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	CREB3L2
Protein Characteristics:	AA 1-521
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CREB3L2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:

MEVLESGEQS VLQWDRKLSE LSEPGETEAL MYHTHFSELL DEFSQNVLGQ LLSDPFLSEK
SESMEVEPSP TSPAPLIQAE HSYSLSEEPR TQSPFTHAAT SDSFNDEEVE SEKWYLSTEF
PSATIKTEPI TEEQPPGLVP SVTLTITAIS TPFEKEESPL DMNAGGDSSC QTLIPKIKLE
PHEVDQFLNF SPKEASVDQL HLPPTPPSSH SSDSEGSLSP NPRLHPFSLS QAHSPARAMP
RGPSALSTSP LLTAPHKLQG SGPLVLTEEE KRTLVAEGYP IPTKLPLTKS EEKALKKIRR
KIKNKISAQE SRRKKKEYMD SLEKKVESCS TENLELRKKV EVLENTNRTL LQQLQKLQTL
VMGKVSRTCK LAGTQTGTCL MVVVLCFAVA FGSFFQGYGP YPSATKMALP SQHPLSEPYT
ASVVRSRNLL IYEEHAPLEE SSSPASAGEL GGWDRGSSLL RASSGLEALP EVDLPHFLIS
NETSLEKSVL LELQQHLVSS KLEGNETLKV VELERRVNAT F

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.
- Mouse Creb3l2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom 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 anything (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 expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and 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

Target Details

Target:	CREB3L2
Alternative Name:	Creb3l2 (CREB3L2 Products)
Background:	Transcription factor involved in unfolded protein response (UPR). In the absence of
	endoplasmic reticulum (ER) stress, inserted into ER membranes, with N-terminal DNA-binding
	and transcription activation domains oriented toward the cytosolic face of the membrane. In
	response to ER stress, transported to the Golgi, where it is cleaved in a site-specific manner by
	resident proteases S1P/MBTPS1 and S2P/MBTPS2. The released N-terminal cytosolic domain
	is translocated to the nucleus to effect transcription of specific target genes. Plays a critical
	role in chondrogenesis by activating the transcription of SEC23A, which promotes the transpor
	and secretion of cartilage matrix proteins, and possibly that of ER biogenesis-related genes
	(PubMed:19767744). In a neuroblastoma cell line, protects cells from ER stress-induced death
	(PubMed:17178827). In vitro activates transcription of target genes via direct binding to the
	CRE site (PubMed:17178827). {ECO:0000269 PubMed:17178827,
	ECO:0000269 PubMed:19767744}.
Molecular Weight:	58.6 kDa Including tag.
UniProt:	Q8BH52
Pathways:	Thyroid Hormone Synthesis
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:	Protein has not been tested for activity yet. 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

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

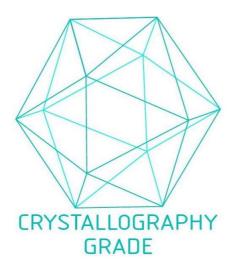


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process