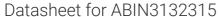
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CASP14 Protein (AA 1-193) (His tag)



Image



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1 mg
CASP14
AA 1-193
Mouse
Escherichia coli (E. coli)
Recombinant
This CASP14 protein is labelled with His tag.
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
MESEMSDPQP LQEERYDMSG ARLALTLCVT KAREGSEVDM EALERMFRYL KFESTMKRDP
TAQQFLEELD EFQQTIDNWE EPVSCAFVVL MAHGEEGLLK GEDEKMVRLE DLFEVLNNKN
CKALRGKPKV YIIQACRGEH RDPGEELRGN EELGGDEELG GDEVAVLKNN PQSIPTYTDT
CKALRGKPKV YIIQACRGEH RDPGEELRGN EELGGDEELG GDEVAVLKNN PQSIPTYTDT LHIYSTVEGY LSY
LHIYSTVEGY LSY

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

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:

Two step purification of proteins expressed in bacterial culture:

- 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.
- 2. 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.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	CASP14	
Alternative Name:	Casp14 (CASP14 Products)	
Background:	Non-apoptotic caspase which is involved in epidermal differentiation. Seems to play a role in	
	keratinocyte differentiation and is required for cornification (PubMed:18156206). Regulates	
	maturation of the epidermis by proteolytically processing filaggrin (PubMed:21654840). In vitro	

is equally active on the synthetic caspase substrates WEHD-ACF and IETD-AFC. Involved in		
processing of prosaposin in the epidermis (PubMed:24872419). May be involved in retinal		
pigment epithelium cell barrier function (By similarity). {ECO:0000250 UniProtKB:P31944,		
ECO:0000269 PubMed:11175259, ECO:0000269 PubMed:17515931,		
ECO:0000269 PubMed:18156206, ECO:0000269 PubMed:21654840,		
ECO:0000269 PubMed:24872419}.		

Molecular Weight:

23.0 kDa Including tag.

UniProt:

089094

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



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