# antibodies .- online.com





## CASP14 Protein (AA 168-257) (His tag)



### Image



0	VE	er۱	VİΘ	PW

Quantity:	1 mg		
Target:	CASP14		
Protein Characteristics:	AA 168-257		
Origin:	Mouse		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Purification tag / Conjugate:	This CASP14 protein is labelled with His tag.		
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)		
Product Details			
Sequence:	KNNPQSIPTY TDTLHIYSTV EGYLSYRHDE KGSGFIQTLT DVFIHKKGSI LELTEEITRL		
	MANTEVMQEG KPRKVNPEVQ STLRKKLYLQ		
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a		
	special request, please contact us.		
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Casp14 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>		
	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 concentration of our recombinant proteins is measured using the absorbance at 280nm. 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. 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:

- 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.
- 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

CASP14

#### Endotoxin Level:

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

Grade:

Target:

Crystallography grade

#### **Target Details**

ranget.	57.61.11
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

#### **Target Details**

Expiry Date:

l arget Details	
	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:	11.4 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.

Unlimited (if stored properly)



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