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# **CD44 Protein (CD44) (AA 23-685) (His tag)**



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Quantity:	1 mg	
Target:	CD44	
Protein Characteristics:	AA 23-685	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CD44 protein is labelled with His tag.	
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)	

#### **Product Details**

Sequence:

QIDLNVTCRY AGVFHVEKNG RYSISRTEAA DLCQAFNSTL PTMDQMKLAL SKGFETCRYG
FIEGNVVIPR IHPNAICAAN HTGVYILVTS NTSHYDTYCF NASAPPEEDC TSVTDLPNSF
DGPVTITIVN RDGTRYSKKG EYRTHQEDID ASNIIDDDVS SGSTIEKSTP EGYILHTYLP
TEQPTGDQDD SFFIRSTLAT IASTVHSKSH AAAQKQNNWI WSWFGNSQST TQTQEPTTSA
TTALMTTPET PPKRQEAQNW FSWLFQPSES KSHLHTTTKM PGTESNTNPT GWEPNEENED
ETDTYPSFSG SGIDDDEDFI SSTIATTPRV SARTEDNQDW TQWKPNHSNP EVLLQTTTRM
ADIDRISTSA HGENWTPEPQ PPFNNHEYQD EEETPHATST TPNSTAEAAA TQQETWFQNG
WQGKNPPTPS EDSHVTEGTT ASAHNNHPSQ RITTQSQEDV SWTDFFDPIS HPMGQGHQTE
SKDTDSSHST TLQPTAAPNT HLVEDLNRTG PLSVTTPQSH SQNFSTLHGE PEEDENYPTT
SILPSSTKSS AKDARRGGSL PTDTTTSVEG YTFQYPDTME NGTLFPVTPA KTEVFGETEV
TLATDSNVNV DGSLPGDRDS SKDSRGSSRT VTHGSELAGH SSANQDSGVT TTSGPMRRPQ IPE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

# **Product Details** special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Mouse Cd44 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 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 baculovirus infected SF9 insect cells: 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. 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.

# Grade: Crystallography grade

Protein is endotoxin free.

0.22 µm filtered

Purity:

Sterility:

Endotoxin Level:

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

### **Target Details**

Target:	CD44	
Alternative Name:	Cd44 (CD44 Products)	
Background:	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its	
	affinity for HA, and possibly also through its affinity for other ligands such as osteopontin,	
	collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in	
	cell migration, tumor growth and progression. In cancer cells, may play an important role in	
	invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and ir	
	hematopoiesis (By similarity). Receptor for LGALS9, the interaction enhances binding of SMAD	
	to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced	
	regulatory T (iTreg) cell stability and suppressive function (PubMed:25065622).	
	{ECO:0000250 UniProtKB:P16070, ECO:0000269 PubMed:25065622}.	
Molecular Weight:	73.8 kDa Including tag.	
UniProt:	P15379	
Pathways:	Glycosaminoglycan Metabolic Process, Autophagy, Negative Regulation of intrinsic apoptotic	
	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:	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	

## Handling

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