

Datasheet for ABIN7562742
CD74 Protein (AA 1-279) (His tag)



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3 Images

Overview

Quantity:	1 mg
Target:	CD74
Protein Characteristics:	AA 1-279
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD74 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cd74 Protein expressed in mammalian cells.
Sequence:	<p>MDDQRDLISN HEQLPILGNR PREPERCSRQ ALYTGVSVLV ALLLAGQATT AYFLYQQQGR</p> <p>LDKLTITSQN LQLESLRMKL PKSAKPVSQM RMATPLLMRP MSMDNMLLGP VKNVTKYGNM</p> <p>TQDHVMHLLT RSGPLEYPQL KGTFPENLKH LKNSMDGVNW KIFESWMKQW LLFEMSKNSL</p> <p>EEKKPTEAPP KVLTKCQEEV SHIPAVYPGA FRPKCDENG N YLPLQCHGST GYCWCVPFNG</p> <p>TEVPHTKSRG RHNCSEPLDM EDLSSGLGVT RQELGQVTL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CD74
Alternative Name:	Cd74 (CD74 Products)
Background:	<p>H-2 class II histocompatibility antigen gamma chain (Ia antigen-associated invariant chain) (Ii) (Ii chain) (MHC class II-associated invariant chain) (CD antigen CD74) [Cleaved into: Class-II-associated invariant chain peptide (CLIP)],FUNCTION: Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to compartments where peptide loading of class II takes place. Enhance also the stimulation of T-cell responses through interaction with CD44.</p> <p>{ECO:0000269 PubMed:8343954, ECO:0000269 PubMed:8977190}., FUNCTION: [Isoform Long]: Stabilizes the conformation of mature CTSL by binding to its active site and serving as a chaperone to help maintain a pool of mature enzyme in endocytic compartments and extracellular space of antigen-presenting cells (APCs). {ECO:0000269 PubMed:11483509, ECO:0000269 PubMed:12417635}., FUNCTION: [Class-II-associated invariant chain peptide]: Binds to the peptide-binding site of MHC class II alpha/beta heterodimers forming an alpha-beta-CLIP complex, thereby preventing the loading of antigenic peptides to the MHC class II</p>

Target Details

	complex until its release by HLA-DM in the endosome. {ECO:0000250 UniProtKB:P04233}.
Molecular Weight:	31.6 kDa
UniProt:	P04441
Pathways:	Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Negative Regulation of intrinsic apoptotic Signaling , Cancer Immune Checkpoints

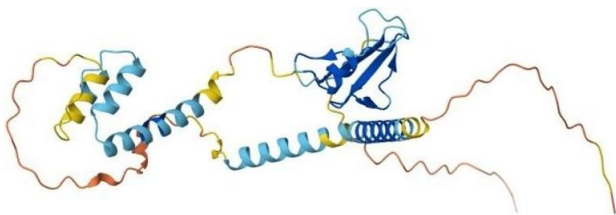
Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months

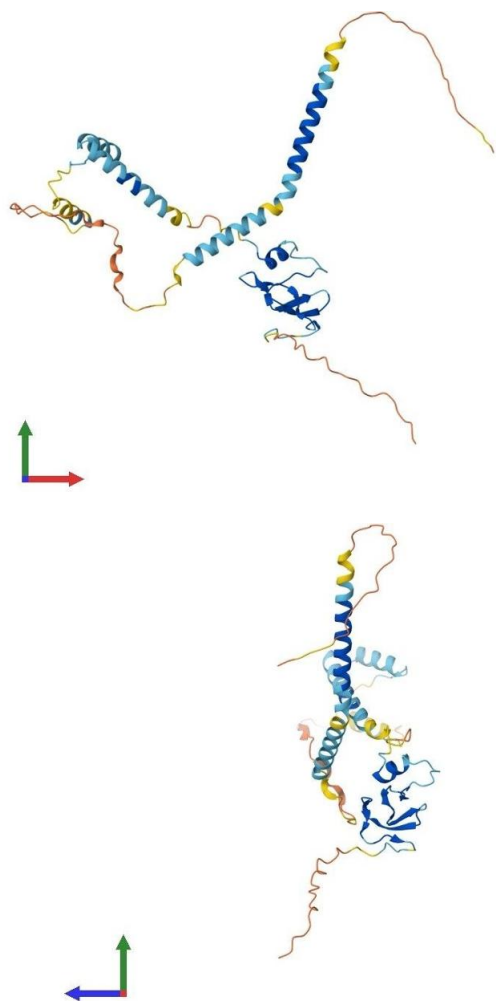
Images



Protein Structure

Image 1. AlphaFold protein structure prediction of Mouse Recombinant Cd74 Protein, UniprotID P04441





Protein Structure

Image 2. AlphaFold protein structure prediction of Mouse Recombinant Cd74 Protein, UniprotID P04441

Protein Structure

Image 3. AlphaFold protein structure prediction of Mouse Recombinant Cd74 Protein, UniprotID P04441