Datasheet for ABIN7565034

ERAP1 Protein (AA 1-930) (His tag)

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Overview

Quantity:	1 mg
Target:	ERAP1
Protein Characteristics:	AA 1-930
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERAP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Erap1 Protein expressed in mammalian cells.
Sequence:	MPSLLPLVLT FLSVSSPSWC QNSDIESLKA SNGDSFPWNN MRLPEYMTPI HYDLMIHANL STLTFWGKTE VEIIASRPTS TIIMHSHHLQ ISKATLRRGA GEMLSEEPLK VLEYPAHEQV ALLAAQPLLA GSLYTVIIDY AANLSESFHG FYKSTYRTQE GEMRILAATQ FEPTAARMAF PCFDEPALKA SFSIKIKRDP RHLAISNMPL VKSVNVAEGL IEDHFDITVK MSTYLVAFII SDFKSVSKMT KSGVKVSVYA VPDKINQADY ALDAAVTLLE FYEDYFNIPY PLPKQDLAAI PDFQSGAMEN WGLTTYRESS LLYDKEKSSA SSKLGITMIV SHELAHQWFG NLVTMEWWND LWLNEGFAKF MEFVSVTVTH PELKVEDYFF GKCFNAMEVD ALNSSHPVST PVENPAQIRE MFDDVSYEKG ACILNMLRDY LSADTFKRGI VQYLQKYSYK NTKNEDLWNS MMHICPTDGT QTMDGFCSRS QHSSSTSHWR QEVVDVKTMM NTWTLQKGFP LITITVSGRN VHMKQEHYMK GSERFPETGY LWHVPLTFIT SKSDSVQRFL LKTKTDVLIL PEAVQWIKFN VGMNGYYIVH YADDGWASLS GLLKEAHTTI SSNDRASLIN NAFQLVSIEK LSIEKALDLT LYLKNETEIM PIFQALNELI PMYKLMEKRD MIEVETQFKD FLLKLLKDLI DKQTWTDEGS VSERMLRSQL

Product Details

	LLLACVRNYQ PCVQRAERYF REWKSSNGNM SIPIDVTLAV FAVGAQNTEG WDFLYSKYQS SLSSTEKSQI EFSLCTSKDP EKLQWLLDQS FKGEIIKTQE FPHILTLIGR NPVGYPLAWK FLRENWNKLV QKFELGSSSI AHMVMGTTDQ FSTRARLEEV KGFFSSLKEN GSQLRCVQQT IETIEENIRW MDKNFDKIRL WLQKEKPELL **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.**
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: • 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:	ERAP1
Alternative Name:	Erap1 (ERAP1 Products)
Background:	Endoplasmic reticulum aminopeptidase 1 (EC 3.4.11.-) (ARTS-1) (Adipocyte-derived leucine aminopeptidase) (A-LAP) (Aminopeptidase PILS) (Puromycin-insensitive leucyl-specific aminopeptidase) (PILS-AP) (VEGF-induced aminopeptidase),FUNCTION: Aminopeptidase that plays a central role in peptide trimming, a step required for the generation of most HLA class I-

Target Details

	binding peptides. Peptide trimming is essential to customize longer precursor peptides to fit them to the correct length required for presentation on MHC class I molecules. Strongly prefers substrates 9-16 residues long. Rapidly degrades 13-mer to a 9-mer and then stops. Preferentially hydrolyzes the residue Leu and peptides with a hydrophobic C-terminus, while it has weak activity toward peptides with charged C-terminus. May play a role in the inactivation of peptide hormones. May be involved in the regulation of blood pressure through the inactivation of angiotensin II and/or the generation of bradykinin in the kidney (By similarity). {ECO:0000250}.
Molecular Weight:	106.6 kDa
UniProt:	Q9EQH2

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