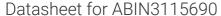
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ERAP2 Protein (AA 1-960) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	ERAP2
Protein Characteristics:	AA 1-960
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERAP2 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MFHSSAMVNS HRKPMFNIHR GFYCLTAILP QICICSQFSV PSSYHFTEDP GAFPVATNGE
RFPWQELRLP SVVIPLHYDL FVHPNLTSLD FVASEKIEVL VSNATQFIIL HSKDLEITNA
TLQSEEDSRY MKPGKELKVL SYPAHEQIAL LVPEKLTPHL KYYVAMDFQA KLGDGFEGFY
KSTYRTLGGE TRILAVTDFE PTQARMAFPC FDEPLFKANF SIKIRRESRH IALSNMPKVK
TIELEGGLLE DHFETTVKMS TYLVAYIVCD FHSLSGFTSS GVKVSIYASP DKRNQTHYAL
QASLKLLDFY EKYFDIYYPL SKLDLIAIPD FAPGAMENWG LITYRETSLL FDPKTSSASD
KLWVTRVIAH ELAHQWFGNL VTMEWWNDIW LKEGFAKYME LIAVNATYPE LQFDDYFLNV
CFEVITKDSL NSSRPISKPA ETPTQIQEMF DEVSYNKGAC ILNMLKDFLG EEKFQKGIIQ
YLKKFSYRNA KNDDLWSSLS NSCLESDFTS GGVCHSDPKM TSNMLAFLGE NAEVKEMMTT
WTLQKGIPLL VVKQDGCSLR LQQERFLQGV FQEDPEWRAL QERYLWHIPL TYSTSSSNVI
HRHILKSKTD TLDLPEKTSW VKFNVDSNGY YIVHYEGHGW DQLITQLNQN HTLLRPKDRV
GLIHDVFQLV GAGRLTLDKA LDMTYYLQHE TSSPALLEGL SYLESFYHMM DRRNISDISE

NLKRYLLQYF KPVIDRQSWS DKGSVWDRML RSALLKLACD LNHAPCIQKA AELFSQWMES
SGKLNIPTDV LKIVYSVGAQ TTAGWNYLLE QYELSMSSAE QNKILYALST SKHQEKLLKL
IELGMEGKVI KTQNLAALLH AIARRPKGQQ LAWDFVRENW THLLKKFDLG SYDIRMIISG
TTAHFSSKDK LQEVKLFFES LEAQGSHLDI FQTVLETITK NIKWLEKNLP TLRTWLMVNT
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human ERAP2 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).

special request, please contact us.

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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and

Product Details

Troduct Details	
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	ERAP2
Alternative Name:	ERAP2 (ERAP2 Products)
Background:	Aminopeptidase that plays a central role in peptide trimming, a step required for the generation
	of most HLA class I-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. Preferentially hydrolyzes the basic residues Arg and Lys.
	{ECO:0000269 PubMed:12799365, ECO:0000269 PubMed:15908954,
	ECO:0000269 PubMed:16286653}.
Molecular Weight:	111.6 kDa Including tag.
UniProt:	Q6P179
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:	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

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage: -	%0 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

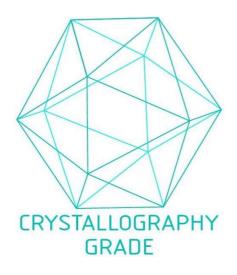


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process