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Datasheet for ABIN3095700

HERV-FRD Provirus Ancestral Env Polyprotein (Herv-frd) (AA 16-478) protein (His tag)



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Overview

Quantity:	1 mg
Target:	HERV-FRD Provirus Ancestral Env Polyprotein (Herv-frd)
Protein Characteristics:	AA 16-478
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

AYRHPDFPLL EKAQQLLQST GSPYSTNCWL CTSSSTETPG TAYPASPREW TSIEAELHIS
YRWDPNLKGL MRPANSLLST VKQDFPDIRQ KPPIFGPIFT NINLMGIAPI CVMAKRKNGT
NVGTLPSTVC NVTFTVDSNQ QTYQTYTHNQ FRHQPRFPKP PNITFPQGTL LDKSSRFCQG
RPSSCSTRNF WFRPADYNQC LQISNLSSTA EWVLLDQTRN SLFWENKTKG ANQSQTPCVQ
VLAGMTIATS YLGISAVSEF FGTSLTPLFH FHISTCLKTQ GAFYICGQSI HQCLPSNWTG
TCTIGYVTPD IFIAPGNLSL PIPIYGNSPL PRVRRAIHFI PLLAGLGILA GTGTGIAGIT KASLTYSQLS
KEIANNIDTM AKALTTMQEQ IDSLAAVVLQ NRRGLDMLTA AQGGICLALD EKCCFWVNQS
GKVQDNIRQL LNQASSLRER ATQGWLNWEG TWK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human ERVFRD-1 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

Purification:

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

the Expasy's protparam tool to determine the absorption coefficient of each protein.

- 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

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target: HERV-FRD Provirus Ancestral Env Polyprotein (Herv-frd)

Alternative Name: ERVFRD-1 (Herv-frd Products)

Target Details

Target Type:	Viral Protein
Background:	
	This endogenous retroviral envelope protein has retained its original fusogenic properties and participates in trophoblast fusion and the formation of a syncytium during placenta
	morphogenesis. The interaction with MFSD2A is apparently important for this process (DubMod:19099732) (ECO:0000360IDubMod:19099732). Endogeneus envelope proteins may
	(PubMed:18988732). {ECO:0000269 PubMed:18988732}., Endogenous envelope proteins may have kept, lost or modified their original function during evolution but this one can still make
	pseudotypes with MLV, HIV-1 or SIV-1 virions and confer infectivity. Retroviral envelope proteins mediate receptor recognition and membrane fusion during early infection. The surface protein
	mediates receptor recognition, while the transmembrane protein anchors the envelope
	heterodimer to the viral membrane through one transmembrane domain. The other
	hydrophobic domain, called fusion peptide, mediates fusion of the viral membrane with the
	target cell membrane (PubMed:14694139). {ECO:0000269 PubMed:14694139}.
Molecular Weight:	52.2 kDa Including tag.
UniProt:	P60508
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
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.

Expiry Date:

Unlimited (if stored properly)

Images

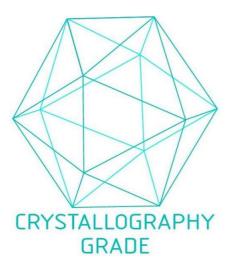


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process