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Coxsackie Adenovirus Receptor Protein (AA 20-365) (rho-1D4 tag)



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Overview

Quantity:	1 mg
Target:	Coxsackie Adenovirus Receptor (CXADR)
Protein Characteristics:	AA 20-365
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Coxsackie Adenovirus Receptor protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequ	ence:
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LSITTPEEMI EKAKGETAYL PCKFTLSPED QGPLDIEWLI SPADNQKVDQ VIILYSGDKI
YDDYYPDLKG RVHFTSNDLK SGDASINVTN LQLSDIGTYQ CKVKKAPGVA NKKIHLVVLV
KPSGARCYVD GSEEIGSDFK IKCEPKEGSL PLQYEWQKLS DSQKMPTSWL AEMTSSVISV
KNASSEYSGT YSCTVRNRVG SDQCLLRLNV VPPSNKAGLI AGAIIGTLLA LALIGLIIFC
CRKKRREEKY EKEVHHDIRE DVPPPKSRTS TARSYIGSNH SSLGSMSPSN MEGYSKTQYN
QVPSEDFERT PQSPTLPPAK VAAPNLSRMG AIPVMIPAQS KDGSIV

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 CXADR 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:

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 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: Coxsackie Adenovirus Receptor (CXADR)

Target Details

Alternative Name:	CXADR (CXADR Products)
Background:	Component of the epithelial apical junction complex that may function as a homophilic cell
	adhesion molecule and is essential for tight junction integrity. Also involved in transepithelial
	migration of leukocytes through adhesive interactions with JAML a transmembrane protein of
	the plasma membrane of leukocytes. The interaction between both receptors also mediates the
	activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved
	in tissue homeostasis and repair. Upon epithelial CXADR-binding, JAML induces downstream
	cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in
	proliferation and production of cytokines and growth factors by T-cells that in turn stimulate
	epithelial tissues repair. {ECO:0000269 PubMed:11734628, ECO:0000269 PubMed:12297051,
	ECO:0000269 PubMed:15800062, ECO:0000269 PubMed:19064666,
	ECO:0000269 PubMed:9096397}., (Microbial infection) Acts as a receptor for adenovirus type C
	(PubMed:9733828, PubMed:10666333, PubMed:12297051, PubMed:10567268). Acts as a
	receptor for Coxsackievirus B1 to B6 (PubMed:14978041, PubMed:10814575).
	{ECO:0000269 PubMed:10567268, ECO:0000269 PubMed:10666333,
	ECO:0000269 PubMed:10814575, ECO:0000269 PubMed:12297051,
	ECO:0000269 PubMed:14978041, ECO:0000269 PubMed:9733828}.
Molecular Weight:	39.2 kDa Including tag.
UniProt:	P78310
Pathways:	Cell-Cell Junction Organization
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

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

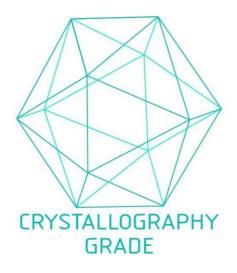


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process