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CoREST Protein (AA 1-482) (His tag)





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Overview

Quantity:	1 mg
Target:	CoREST (RCOR1)
Protein Characteristics:	AA 1-482
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CoREST protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MVEKGPEVSG KRRGRNNAAA SASAAAASAA ASAACASPAA TAASGAAASS ASAAAASAAA
APNNGQNKSL AAAAPNGNSS SNSWEEGSSG SSSDEEHGGG GMRVGPQYQA VVPDFDPAKL
ARRSQERDNL GMLVWSPNQN LSEAKLDEYI AIAKEKHGYN MEQALGMLFW HKHNIEKSLA
DLPNFTPFPD EWTVEDKVLF EQAFSFHGKT FHRIQQMLPD KSIASLVKFY YSWKKTRTKT
SVMDRHARKQ KREREESEDE LEEANGNNPI DIEVDQNKES KKEVPPTETV PQVKKEKHST
QAKNRAKRKP PKGMFLSQED VEAVSANATA ATTVLRQLDM ELVSVKRQIQ NIKQTNSALK
EKLDGGIEPY RLPEVIQKCN ARWTTEEQLL AVQAIRKYGR DFQAISDVIG NKSVVQVKNF
FVNYRRRFNI DEVLQEWEAE HGKEETNGPS NQKPVKSPDN SIKMPEEEDE APVLDVRYAS AS
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 RCOR1 Protein (raised in E. Coli) 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:

Two step purification of proteins expressed in bacterial culture:

- 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:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target: CoREST (RCOR1)

Alternative Name: RCOR1 (RCOR1 Products)

Target Details

Background:	Essential component of the BHC complex, a corepressor complex that represses transcription
	of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE
	sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby
	acting as a chromatin modifier. In the BHC complex, it serves as a molecular beacon for the
	recruitment of molecular machinery, including MeCP2 and SUV39H1, that imposes silencing
	across a chromosomal interval. Plays a central role in demethylation of Lys-4 of histone H3 by
	promoting demethylase activity of KDM1A on core histones and nucleosomal substrates. It
	also protects KDM1A from the proteasome. Component of a RCOR/GFI/KDM1A/HDAC
	complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes
	implicated in multilineage blood cell development and controls hematopoietic differentiation.
	{ECO:0000269 PubMed:11171972, ECO:0000269 PubMed:11516394,
	ECO:0000269 PubMed:12032298, ECO:0000269 PubMed:12399542,
	ECO:0000269 PubMed:12493763, ECO:0000269 PubMed:16079794,
	ECO:0000269 PubMed:16140033}.
Molecular Weight:	54.0 kDa Including tag.
UniProt:	Q9UKL0
Pathways:	Regulation of Hormone Metabolic Process, Chromatin Binding
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
	moreage goldsmity. We will allocate an population option of with your material to accure that you
	receive your protein of interest.
Restrictions:	
Restrictions: Handling	receive your protein of interest.
	receive your protein of interest.
Handling	receive your protein of interest. For Research Use only

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

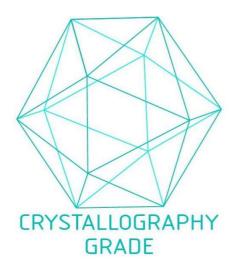


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process