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Retinoic Acid Receptor gamma Protein (AA 1-458) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	Retinoic Acid Receptor gamma (RARG)
Protein Characteristics:	AA 1-458
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Retinoic Acid Receptor gamma protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:

MATNKERLFA PGALGPGSGY PGAGFPFAFP GALRGSPPFE MLSPSFRGLG QPDLPKEMAS LSVETQSTSS EEMVPSSPSP PPPPRVYKPC FVCNDKSSGY HYGVSSCEGC KGFFRRSIQK NMVYTCHRDK NCIINKVTRN RCQYCRLQKC FEVGMSKEAV RNDRNKKKKE VKEEGSPDSY ELSPQLEELI TKVSKAHQET FPSLCQLGKY TTNSSADHRV QLDLGLWDKF SELATKCIIK IVEFAKRLPG FTGLSIADQI TLLKAACLDI LMLRICTRYT PEQDTMTFSD GLTLNRTQMH NAGFGPLTDL VFAFAGQLLP LEMDDTETGL LSAICLICGD RMDLEEPEKV DKLQEPLLEA LRLYARRRRP SQPYMFPRML MKITDLRGIS TKGAERAITL KMEIPGPMPP LIREMLENPE MFEDDSSKPG PHPKASSEDE APGGQGKRGQ SPQPDQGP

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.
- · Mouse Rarg 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

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 baculovirus infected SF9 insect cells:

- 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.

specific reference buffer.

Grade:

Crystallography grade

Target Details

Target: Retinoic Acid Receptor gamma (RARG)

Alternative Name: Rarg (RARG Products)

Target Details

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Background:	Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response
	elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene
	expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid
	response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the
	absence of ligand, acts mainly as an activator of gene expression due to weak binding to
	corepressors (By similarity). Required for limb bud development. In concert with RARA or RARB,
	required for skeletal growth, matrix homeostasis and growth plate function. {ECO:0000250,
	ECO:0000269 PubMed:19389355, ECO:0000269 PubMed:8388780}.
Molecular Weight:	51.8 kDa Including tag.
UniProt:	P18911
Pathways:	Nuclear Receptor Transcription Pathway, Retinoic Acid Receptor Signaling Pathway, Steroid
	Hormone Mediated Signaling Pathway, Regulation of Cell Size
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:	Protein has not been tested for activity yet. 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)



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