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OAS1 Protein (AA 1-400) (His tag)



Image



Overview

Quantity:	1 mg
Target:	OAS1
Protein Characteristics:	AA 1-400
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OAS1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MMDLRNTPAK SLDKFIEDYL LPDTCFRMQI NHAIDIICGF LKERCFRGSS YPVCVSKVVK
GGSSGKGTTL RGRSDADLVV FLSPLTTFQD QLNRRGEFIQ EIRRQLEACQ RERAFSVKFE
VQAPRWGNPR ALSFVLSSLQ LGEGVEFDVL PAFDALGQLT GGYKPNPQIY VKLIEECTDL
QKEGEFSTCF TELQRDFLKQ RPTKLKSLIR LVKHWYQNCK KKLGKLPPQY ALELLTVYAW
ERGSMKTHFN TAQGFRTVLE LVINYQQLCI YWTKYYDFKN PIIEKYLRRQ LTKPRPVILD
PADPTGNLGG GDPKGWRQLA QEAEAWLNYP CFKNWDGSPV SSWILLAESN SADDETDDPR
RYQKYGYIGT HEYPHFSHRP STLQAASTPQ AEEDWTCTIL

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 OAS1 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:

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.
Grade:	Crystallography grade

Target Details

Target:	OAS1
Alternative Name:	OAS1 (OAS1 Products)

Target Details

Background:	Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate
	antiviral response. In addition, it may also play a role in other cellular processes such as
	apoptosis, cell growth, differentiation and gene regulation. Synthesizes higher oligomers of 2'-
	5'-oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of
	ribonuclease L (RNase L) leading to its dimerization and subsequent activation. Activation of
	RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of
	protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the
	classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase
	L. The secreted form displays antiviral effect against vesicular stomatitis virus (VSV), herpes
	simplex virus type 2 (HSV-2), and encephalomyocarditis virus (EMCV) and stimulates the
	alternative antiviral pathway independent of RNase L. {ECO:0000269 PubMed:12799444,
	ECO:0000269 PubMed:18931074, ECO:0000269 PubMed:19923450,
	ECO:0000269 PubMed:23319625}.
Molecular Weight:	47.0 kDa Including tag.
UniProt:	P00973
Pathways:	Hepatitis C
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

Handling

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

Images

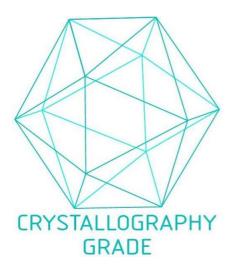


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process