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PPIF Protein (AA 30-206) (His tag)



Overview

Overview	
Quantity:	1 mg
Target:	PPIF
Protein Characteristics:	AA 30-206
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPIF protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	CSDGGARGAN SSSGNPLVYL DVGADGQPLG RVVLELKADV VPKTAENFRA LCTGEKGFGY
	KGSTFHRVIP AFMCQAGDFT NHNGTGGRSI YGSRFPDENF TLKHVGPGVL SMANAGPNTN
	GSQFFICTIK TDWLDGKHVV FGHVKEGMDV VKKIESFGSK SGKTSKKIVI TDCGQLS
	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 Ppif 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 protein's absorbance will be measured in several dilutions and is measured against its

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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:

- 1. 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.
- 2. 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:	PPIF
Alternative Name:	Ppif (PPIF Products)
Background:	PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline
	imidic peptide bonds in oligopeptides. Involved in regulation of the mitochondrial permeability
	transition pore (mPTP). It is proposed that its association with the mPTP is masking a binding
	site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP

Target Details	
	leading to apoptosis or necrosis, the requirement of the PPIase activity for this function is
	debated. In cooperation with mitochondrial TP53 is involved in activating oxidative stress-
	induced necrosis. Involved in modulation of mitochondrial membrane F(1)F(0) ATP synthase
	activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic
	activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent
	apoptosis. {ECO:0000269 PubMed:15800626, ECO:0000269 PubMed:15800627,
	ECO:0000269 PubMed:16103352, ECO:0000269 PubMed:18684715,
	ECO:0000269 PubMed:19801635, ECO:0000269 PubMed:21281446,
	ECO:0000269 PubMed:22726440}.
Molecular Weight:	19.7 kDa Including tag.
UniProt:	Q99KR7
Pathways:	Proton Transport, Negative Regulation of intrinsic apoptotic Signaling, Negative Regulation of
	Transporter Activity
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

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)

options with you in detail to assure that you receive your protein of interest.