antibodies .- online.com





IMPG2 Protein (AA 23-1099) (His tag)



Overview

Quantity:	1 mg
Target:	IMPG2
Protein Characteristics:	AA 23-1099
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IMPG2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

DFPSLTAQTY LSIEEIQEPK SAVSFLLPEE STDLSLATKK KQPLDRRETE RQWLIRRRRS

ILFPNGVKIC PDESVAEAVA NHVKYFKVRV CQEAVWEAFR TFWDRLPGRE EYHYWMNLCE

DGVTSIFEMG TNFSESVEHR SLIMKKLTYA KETVSSSELS SPVPVGDTST LGDTTLSVPH

PEVDAYEGAS ESSLERPEES ISNEIENVIE EATKPAGEQI AEFSIHLLGK QYREELQDSS

SFHHQHLEEE FISEVENAFT GLPGYKEIRV LEFRSPKEND SGVDVYYAVT FNGEAISNTT

WDLISLHSNK VENHGLVELD DKPTVVYTIS NFRDYIAETL QQNFLLGNSS LNPDPDSLQL

INVRGVLRHQ TEDLVWNTQS SSLQATPSSI LDNTFQAAWP SADESITSSI PPLDFSSGPP

SATGRELWSE SPLGDLVSTH KLAFPSKMGL SSSPEVLEVS SLTLHSVTPA VLQTGLPVAS

EERTSGSHLV EDGLANVEES EDFLSIDSLP SSSFTQPVPK ETIPSMEDSD VSLTSSPYLT

SSIPFGLDSL TSKVKDQLKV SPFLPDASME KELIFDGGLG SGSGQKVDLI TWPWSETSSE

KSAEPLSKPW LEDDDSLLPA EIEDKKLVLV DKMDSTDQIS KHSKYEHDDR STHFPEEEPL

SGPAVPIFAD TAAESASLTL PKHISEVPGV DDYSVTKAPL ILTSVAISAS TDKSDOADAI

LREDMEQITE SSNYEWFDSE VSMVKPDMQT LWTILPESER VWTRTSSLEK LSRDILASTP
QSADRLWLSV TQSTKLPPTT ISTLLEDEVI MGVQDISLEL DRIGTDYYQP EQVQEQNGKV
GSYVEMSTSV HSTEMVSVAW PTEGGDDLSY TQTSGALVVF FSLRVTNMMF SEDLFNKNSL
EYKALEQRFL ELLVPYLQSN LTGFQNLEIL NFRNGSIVVN SRMKFANSVP PNVNNAVYMI
LEDFCTTAYN TMNLAIDKYS LDVESGDEAN PCKFQACNEF SECLVNPWSG EAKCRCFPGY
LSVEERPCQS LCDLQPDFCL NDGKCDIMPG HGAICRCRVG ENWWYRGKHC EEFVSEP

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 IMPG2 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:

- 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.
- 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.

Product Details		
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:	IMPG2	
Alternative Name:	IMPG2 (IMPG2 Products)	
Background:	Chondroitin sulfate- and hyaluronan-binding proteoglycan involved in the organization of interphotoreceptor matrix, may participate in the maturation and maintenance of the light-sensitive photoreceptor outer segment. Binds heparin. {ECO:0000269 PubMed:10702256}.	
Molecular Weight:	121.0 kDa Including tag.	
UniProt:	Q9BZV3	
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 gurante 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	
Storage Comment:	Store at -80°C.	

\vdash	land	linc
	iaria	11116

Expiry Date:

Unlimited (if stored properly)