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Datasheet for ABIN3080442 GBP5 Protein (AA 1-583) (His tag)



Overview

Quantity:	1 mg
Target:	GBP5
Protein Characteristics:	AA 1-583
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GBP5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	QKMQEQQMQE QAAQLSTTFQ AQNRSLLSEL QHAQRTVNND DPC
	TETEKKKKEA QVKAEAEKAE AQRLAAIQRQ NEQMMQERER LHQEQVRQME IAKQNWLAEQ
	KQGIYSKPGG HNLFIQKTEE LKAKYYREPR KGIQAEEVLQ KYLKSKESVS HAILQTDQAL
	EAIEVFMKNS FKDVDQSFQK ELETLLDAKQ NDICKRNLEA SSDYCSALLK DIFGPLEEAV
	AISSGDLPCI ENAVLALAQR ENSAAVQKAI AHYDQQMGQK VQLPMETLQE LLDLHRTSER
	HQKKLAQLET LPDDELEPEF VQQVTEFCSY IFSHSMTKTL PGGIMVNGSR LKNLVLTYVN
	RDFCLGLEID GQLVTPDEYL ENSLRPKQGS DQRVQNFNLP RLCIQKFFPK KKCFIFDLPA
	LLSSTFVYNT VNKIDQGAID LLHNVTELTD LLKARNSPDL DRVEDPADSA SFFPDLVWTL
	KNKGFSVAST VQSHTKGIWI WCVPHPNWPN HTLVLLDTEG LGDVEKADNK NDIQIFALAL
Sequence:	MALEIHMSDP MCLIENFNEQ LKVNQEALEI LSAITQPVVV VAIVGLYRTG KSYLMNKLAG

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human GBP5 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

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Target Details

GBP5 (GBP5 Products)
As an activator of NLRP3 inflammasome assembly, plays a role in innate immunity and
inflammation. Promotes selective NLRP3 inflammasome assembly in response to microbial
and soluble, but not crystalline, agents (PubMed:22461501). Hydrolyzes GTP, but in contrast to
other family members, does not produce GMP (PubMed:20180847).
{ECO:0000269 PubMed:20180847, ECO:0000269 PubMed:22461501}.
67.2 kDa Including tag.
Q96PP8
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
guarantee though.
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.
For Research Use only
Liquid
100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Avoid repeated freeze-thaw cycles.
-80 °C
Store at -80°C.

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