

Datasheet for ABIN7547866
GBP3 Protein (AA 1-595) (His tag)



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Overview

Quantity:	1 mg
Target:	GBP3
Protein Characteristics:	AA 1-595
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GBP3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GBP3 Protein expressed in mammalian cells.
Sequence:	<p>MAPEIHMTGP MCLIENTNGE LVANPEALKI LSAITQPVVV VAIVGLYRTG KSYLMNKLKAG KNKGFSLGST VKSHTKGIWM WCVPHPKKPE HTLVLLDTEG LGDVKKGDNQ NDSWIFTLAV LLSSTLVYNS MGTINQQAMD QLYYVTELTHT RIRSKSSPDE NENEDSADFV SFFPDFVWTL RDFSLDLEAD GQPLTPDEYL EYSLKLTQGT SQKDKNFNLP RLCIRKFFPK KKCFVFDLPI HRRKLAQLEK LQDEELDPEF VQQVADFCSY IFSNSKTKTL SGGIKVNGPR LESLVLTYYIN AISRGDLPCM ENAVLALAQI ENSAAVQKAI AHYDQQMGQK VQLPAETLQE LLDLHRVSR EATEVYMKNS FKDVDHLFQK KLAQLDKKR DDFCKQNQEA SDRCSALLQ VIFSPLEEEV KAGIYSKPGG YCLFIQKLQD LEKKYYEPR KGIQAEEILQ TYLKSKEVST DAILQTDQIL TEKEKEIEVE CVKAESAQAS AKMVEEMQIK YQQMMEEKEK SYQEHVKQLT EKMERERAQL LEEQKTLTS KLQEQRVLK ERCQGESTQL QNEIQKLQKT LKKKTKRYMS HKLKI Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you</p>

Product Details

have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: GBP3

Alternative Name: GBP3 ([GBP3 Products](#))

Background: Guanylate-binding protein 3 (EC 3.6.5.-) (GTP-binding protein 3) (GBP-3) (Guanine nucleotide-binding protein 3),FUNCTION: Interferon (IFN)-inducible GTPase that plays important roles in innate immunity against a diverse range of bacterial, viral and protozoan pathogens (PubMed:22106366). Hydrolyzes GTP very efficiently, GDP rather than GMP is the major reaction product (By similarity). Following infection, recruited to the pathogen-containing vacuoles or vacuole-escaped bacteria and acts as a positive regulator of inflammasome assembly by promoting the release of inflammasome ligands from bacteria (By similarity). Acts by promoting lysis of pathogen-containing vacuoles, releasing pathogens into the cytosol (By similarity). Following pathogen release in the cytosol, promotes recruitment of proteins that mediate bacterial cytolysis: this liberates ligands that are detected by inflammasomes, such as

Target Details

lipopolysaccharide (LPS) that activates the non-canonical CASP4/CASP11 inflammasome or double-stranded DNA (dsDNA) that activates the AIM2 inflammasome (By similarity). Exhibits antiviral activity against influenza virus (PubMed:22106366). {ECO:0000250|UniProtKB:Q61107, ECO:0000269|PubMed:22106366}., FUNCTION: [Isoform 2]: Shows the most prominent antiviral activity in epithelial cells. {ECO:0000269|PubMed:22106366}.

Molecular Weight: 68.1 kDa

UniProt: [Q9H0R5](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months