

Datasheet for ABIN7317360

GBP1 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	GBP1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GBP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GBP1 Protein (His Tag)
Sequence:	Met 1-Cys 589
Characteristics:	A DNA sequence encoding the human GBP1 (AAA35871.1) (Met 1-Cys 589) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	GBP1
Alternative Name:	GBP1 (GBP1 Products)
Background:	Background: Guanylate-binding protein 1 (GBP-1) is a member of the GBP family whose members are GTPases induced in response to interferon-λ (IFN-λ), with seven highly homologous members in humans, termed HuGBP-1 to HuGBP-7. GBP-1 expression is induced

Target Details

by type1 and type2 interferons, including IFN- λ and also by interleukin-1 β (IL-1 β), IL-1 α , and tumor necrosis factor- α (TNF- α). GBP-1 is key to the protective immunity against microbial and viral pathogens. GBP-1 was only secreted from endothelial cells. Secretion occurred without the presence of a leader peptide. Secretion procession is a nonclassical, likely ABC transporter-dependent, pathway and independent of GBP-1 GTPase activity and isoprenylation, and did not require additional interferon- λ -induced factors. Clinically most important was the detection of significantly increased GBP-1 concentrations in the cerebrospinal fluid of patients with bacterial meningitis as compared to control patients.

Synonym: GBP1

Molecular Weight: 69 kDa

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.