

Recombinant Human GBP1

Cat. No. GBP1-28991TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GBP1 with N terminal proprietary tag; Predicted MWt 91.23 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	592 amino acids
Description	Guanylate binding protein expression is induced by interferon. Guanylate binding proteins are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP) and are distinguished from the GTP-binding proteins by the presence of 2 binding motifs rather than 3.
Molecular Weight	91.230kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MASEIHMTGPMCLIENTNGRLMANPEALKILSAITQPMVV VAIVGLYRTGKSYLMNKL
 AGKKKGFSLGSTVQSHTKGIWM WCVPHPKKPGHILVLLDTEGLGDVEKGDNQNS
 WIFALAV LLSSTFVYNSIGTINQQAMDQLYYVTELTHRIRSKSSPDE NENEVEDSAD
 FVSFFPDFVWTLRDFSLDLEADGQPLTPDE YLTYSCLKKKGTSQKDETFLNPLRCIR
 KFFPKKKCFVFDR PVHRRKLAQLEKLQDEELDPEFVQQVADFCSYIFSNSKTK TLS
 GGIQVNGPRLESLVLTYNVNAISSGDLPCMENAVLALA QIENSAAVQKAIAHYEQQMG
 QKVQLPTESLQELLDLHRDS EREAIEVFIRSSFKDVDHLFQKELAAQLEKKRDDFCK
 QNQ EASSDRCSGLLQVIFSPLEEEVKAGIYSKPGGYRLFVQKL QDLKKKYEEPRK
 GIQAEELQTYLKSKESTMDAILQTDQ TLTEKEKEIEVERVKAESAQASAKMLQEMQ
 RKNEQMMMEQK ERSYQEHKQLTEKMENDRVQLLKEQERTLALKLQEQEQL LKEG
 FQKESRIMKNEIQDLQTKMRRRKACTIS

Sequence Similarities

Belongs to the GBP family.

GENE INFORMATION

Gene Name [GBP1 guanylate binding protein 1, interferon-inducible \[Homo sapiens \]](#)

Official Symbol [GBP1](#)

Synonyms GBP1; guanylate binding protein 1, interferon-inducible; guanylate binding protein 1, interferon inducible, 67kDa; interferon-induced guanylate-binding protein 1;

Gene ID [2633](#)

mRNA Refseq [NM_002053](#)

Protein Refseq [NP_002044](#)

MIM [600411](#)

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Uniprot ID	P32455
Chromosome Location	1p22.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem; Interferon gamma signaling, organism-specific biosystem; Type II interferon signaling (IFNG), organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding;

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