

Human GBP-2 / GBP2 Protein (His Tag)

Catalog Number: 13930-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

GBP2

Protein Construction:

A DNA sequence encoding the human GBP2 (AAH73163.1) (Met1-Cys588) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human GBP2 consists of 599 amino acids and predicts a molecular mass of 68.3 KDa. It migrates as an approximately 62 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

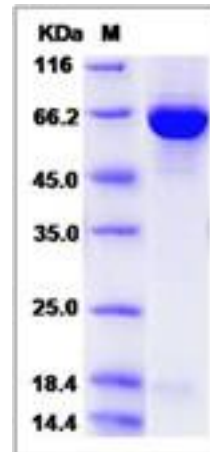
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

GBP-2 belongs to the guanylate-binding protein (GBP) family. GBPs are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP). As GTPases induced by IFN-gamma (Interferon-inducible GTPase), they are key to the protective immunity against microbial and viral pathogens. GBP-2 is a GTPase that converts GTP to GDP and GMP. It binds GTP, GDP and GMP. GBP-2 hydrolyzes GTP very efficiently. GDP rather than GMP is the major reaction product. GBP-2 is induced by interferons that have antiviral effects and inhibit tumor cell proliferation.

References

1. Strausberg RL, *et al.* (2003) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc Natl Acad Sci.* 99(26):16899-903.
2. Wistow G, *et al.* (2002) Expressed sequence tag analysis of human RPE/choroid for the NEIBank Project: over 6000 non-redundant transcripts, novel genes and splice variants. *Mol Vis.* 8:205-20.
3. Neun R, *et al.* (1996) GTPase properties of the interferon-induced human guanylate-binding protein 2. *FEBS Lett.* 390(1):69-72.

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