

# Active Recombinant Human IFNGR2 Protein

**Cat. No.** IFNGR2-265I    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IFNGR2 Protein without tag was expressed in CHO.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 28-247 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | IFN-gamma Receptor II, also known as IFNGR2 and IFNGT1, is a transmembrane protein belonging to the type II cytokine receptor family. IFNGR2 is a non-ligand-binding beta chain of the IFN-gamma receptor. It is an integral part of the IFN-gamma signaling transduction pathway and is likely to interact with GAF, JAK1 and JAK2. Defects in IFNGR2 are a cause of autosomal recessive Mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | ED50 < 0.1 µg/mL, measured in a cell cytotoxicity assay using HT-29 (HTB-38) cells in the presence of 1 ng/mL human IFN-gamma.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 38-40 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | SQLPAPQHHPKIRLYNAEQVLSWEPVALSNSTRPVVYQVQFKYTDSKWFTADIMSIGV<br>NCTQITATECDFTAASPSAGFPMDFNVTLRLRAELGALHSAWVTMPWFQHYRNVTV                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | GPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYVHYWEKGGIQQVKGPFRRNSISL<br>DNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNISCYETMADASTELQQ                                                                                                                                                |
| <b>Endotoxin</b>      | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                        |
| <b>Purity</b>         | > 95% as analyzed by SDS-PAGE.                                                                                                                                                                                                                                |
| <b>Storage</b>        | Lyophilized recombinant Human IFN-gamma Receptor II remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human IFN-gamma Receptor II should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                             |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Gene Name</b>       | IFNGR2 interferon gamma receptor 2 [ Homo sapiens (human) ]      |
| <b>Official Symbol</b> | IFNGR2                                                           |
| <b>Synonyms</b>        | IFNGR2; interferon gamma receptor 2; AF-1; IFGR2; IMD28; IFNGT1; |
| <b>Gene ID</b>         | 3460                                                             |
| <b>mRNA Refseq</b>     | NM_005534                                                        |
| <b>Protein Refseq</b>  | NP_005525                                                        |
| <b>MIM</b>             | 147569                                                           |

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UniProt ID

P38484

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