

## IFNGR2 Protein, Human, Recombinant

### General Information

Synonyms:	IFNGT1;IFNGR2
Protein Construction:	Ser28-Gln247
Species:	Human
Expression Host:	CHO Cells
Accession:	P38484
Molecular Weight:	38~40 kDa (Reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 0.1 µg/ml, measured in a cell cytotoxicity assay using HT-29 (HTB-38) cells in the presence of 1.0 ng/ml human IFN-gamma.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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