

# Human IFN gamma R1/IFNGR1 Protein

Cat. No. IFN-HM2GR

## Description

<b>Source</b>	Recombinant Human IFN gamma R1/IFNGR1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu18-Gly245.
<b>Accession</b>	AAH05333
<b>Molecular Weight</b>	The protein has a predicted MW of 52.4 kDa. Due to glycosylation, the protein migrates to 60-75 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

IFN-gamma and one of its receptor subunits, IFNGR1, are translocated to the nucleus, together with STAT1alpha as one macromolecular complex, via the classical importin-dependent pathway. Put IFN-gamma and its receptor subunit, IFNGR1, in direct contact with the promoter region of IFN-gamma-activated genes with associated increased activity, thus suggesting a transcriptional/cotranscriptional role for IFN-gamma/IFNGR1 as well as a possible role in determining the specificity of IFN-gamma action.

## Assay Data

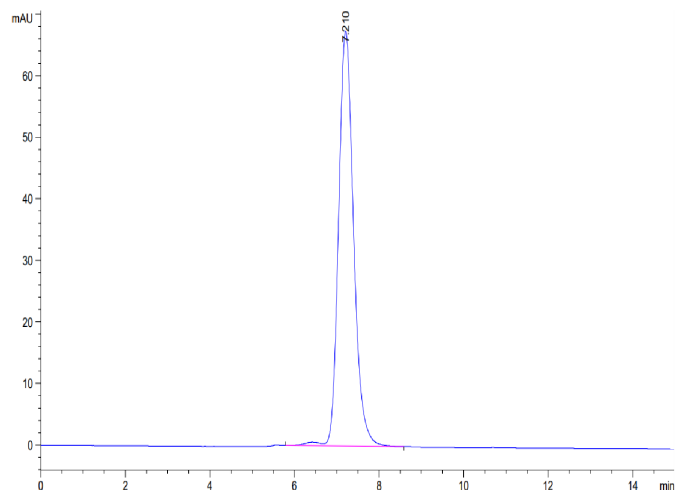
### Bis-Tris PAGE



Human IFNGR1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

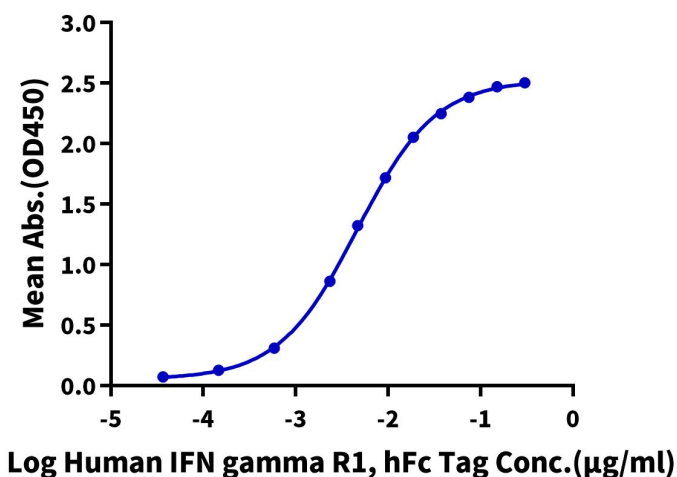


The purity of Human IFN gamma R1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IFN gamma R1, hFc Tag ELISA

0.5µg Human IFN gamma, His Tag Per Well



Immobilized Human IFN gamma, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IFN gamma R1, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA.