

# Recombinant Mouse interferon gamma Protein, His&Flag tagged

**Cat. No.** Ifng-063M    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant mouse IFN-gamma protein (P01580) (His 23-Cys 155) with both His, Flag tag at the C-terminus was expressed in HEK293.

### Species

Mouse

### Source

HEK293

### ProteinLength

23-155aa

### Description

Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation. Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation. Upon IFNG binding, IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2, JAK1 and STAT1, leading to STAT1 activation, nuclear translocation and transcription of IFNG-regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription. Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits. In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading. Increases the effic.

### Tag

C-His&Flag

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<b>Molecular Mass</b>	18.2 kDa
<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution</b>	Reconstitute at 250 μg/mL in sterile water.

## GENE INFORMATION

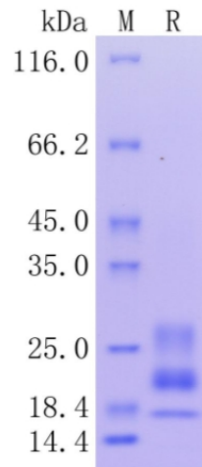
<b>Gene Name</b>	<a href="#">Ifng interferon gamma [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Ifng</a>
<b>Synonyms</b>	IFNG; interferon gamma; IFN-gamma; gamma interferon; Ifg; IFN-g;
<b>Gene ID</b>	<a href="#">15978</a>
<b>mRNA Refseq</b>	<a href="#">NM_008337</a>
<b>Protein Refseq</b>	<a href="#">NP_032363</a>
<b>UniProt ID</b>	<a href="#">P01580</a>

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**Protein on SDS-  
PAGE under  
reducing (R)  
condition.**



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