

Recombinant Human IFNGR2, Fc Chimera

Cat. No. IFNGR2-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNGR2 encoding the signal peptide and extracellular domain of human interferon gamma receptor 2 (aa 1-247) chain was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Protein Length	1-247 a.a.
Description	Interferon-gamma (IFN-gamma) is a pleotropic cytokine expressed predominantly by naïve and activated CD8+ and TH1 CD4+ T cells, and natural killer (NK) cells and, as such, promotes both innate and adaptive immune responses.
Amino Acid Sequence	SQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRPVVYRVQFKYTDSKWFTADIMSIGV NCTQITATECDFTAASPSAGFPMDFNVTLRLRAELGALHSAWVTMPWFQHYRNVTV GPPENIEVTPGEGSLIIRFSSPFDIADTSTAFFCYVHYWEKGGIQQVKGPFRSNSISL DNLKPSRVYCLQVQAQLLWNKSNIFRVGHLSNISCYETMADASTELQQGSSNTKVD KKVEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKV NKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE SNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYT QKSLSLSPGK.

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Molecular Mass	IFN-gamma R2 – Fc Chimera migrates as a broad band between 65 and 75 kDa on SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified IFN-gamma R2 - Fc Chimera that has a predicted molecular mass of 52 kDa.
pI	IFN-gamma R2 – Fc Chimera separates into a number of glycoforms with a pI between 5.5 and 8 on 2D PAGE due to post-translational modifications, in particular glycosylation.
% Carbohydrate	Purified IFN-gamma R2 – Fc Chimera consists of 20-30% carbohydrate by weight.
Glycosylation	IFN-gamma R2 – Fc Chimera has N- and possibly O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

GENE INFORMATION

Gene Name	IFNGR2 interferon gamma receptor 2 (interferon gamma transducer 1) [Homo sapiens]
Synonyms	IFNGR2; interferon gamma receptor 2 (interferon gamma transducer 1); AF-1; IFGR2; IFNGT1; Interferon-gamma receptor accessory factor 1; interferon gamma receptor

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	accessory factor-1; Interferon-gamma transducer 1; interferon gamma receptor beta chain; interferon-gamma receptor beta chain precursor
Gene ID	3460
mRNA Refseq	NM_005534
Protein Refseq	NP_005525
UniProt ID	P38484
Chromosome Location	21q22.1
MIM	147569
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity
Function	interferon-gamma receptor activity; receptor activity

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