

IFNG-FC recombinant protein

Catalog No :	YD3049
Reactivity :	Human;
Purity :	>90% as determined by SDS-PAGE
Gene Name :	IFNG
Protein Name :	Interferon gamma (IFN-gamma) (Immune interferon)
Sequence :	Amino acid:24-166,with FC tag.
Human Gene Id :	3458
Human Swiss Prot No :	P01579
Formulation :	Phosphate-buffered solution
Source :	Mammalian cells
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Function :	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 (PubMed:16914093, PubMed:8666937). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation (PubMed:8349687). 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 (PubMed:16914093). Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immun
Subcellular Location :	Secreted.
Expression :	Released primarily from activated T lymphocytes.

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