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Product Sheet

Human IFNA1 Protein; hFc Tag

GM-88796RP-100 / 100 μg
GM-88796RP-1000 / 1 mg

Product Information

Product Name	Human IFNA1 Protein; hFc Tag
Source	Human IFNA1 Protein; hFc Tag (GM-88796RP) is expressed from human 293 cells (HEK-293). It contains AA Cys 24 - Glu 189 (Accession # P0DY56). This protein carries a hFc tag at the C-terminus.
Predicted MW	45.3 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	IFN-alpha 1, IFNA1, IFNalpha 1, IFN-alpha-1, LeIF D
Background	IFNA1 (interferon α-1) is a secreted member of the type I interferon family, one of thirteen human IFN-α subtypes clustered on chromosome 9p21. Its gene is intronless, and the mature protein is a non-glycosylated cytokine folded into a five-α-helix bundle stabilized by two disulfide bonds. Produced chiefly by plasmacytoid dendritic cells upon viral sensing through Toll-like receptors or RIG-I-like helicases, IFN-α1 binds the ubiquitously expressed IFNAR1–IFNAR2 heterodimer and activates JAK1 and TYK2. These phosphorylate STAT1 and STAT2, which assemble with IRF9 into ISGF3, translocate to the nucleus and bind interferon-stimulated response elements to induce interferon-stimulated genes. The response establishes an antiviral state and shapes innate and adaptive immunity.

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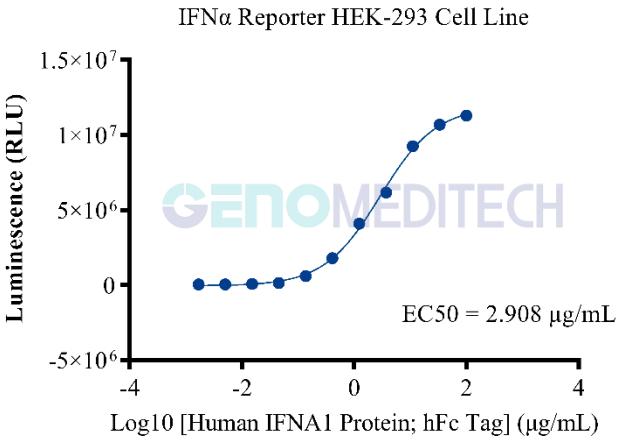
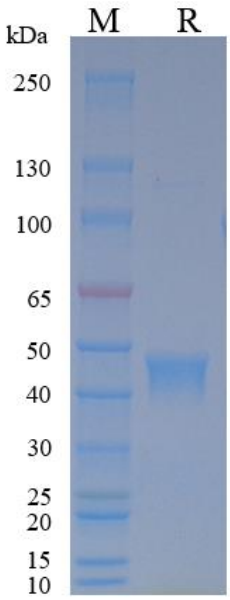
Data

Biological Activity



Human IFNA1 Protein; hFc Tag (Catalog # GM-88796RP) was added into IFNα Reporter HEK-293 Cell Line (Catalog # GM-C21639) and stimulates related signals.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

CD40:CD40L	
H_CD40(TNFRSF5) Reporter 293 Cell Line	H_CD40(TNFRSF5) Reporter Jurkat Cell Line
Cynomolgus_CD40 CHO-K1 Cell Line	Cynomolgus_CD40L CHO-K1 Cell Line
H_CD40(TNFRSF5) CHO-K1 Cell Line	H_CD40(TNFRSF5) HEK-293 Cell Line
H_CD40L CHO-K1 Cell Line	H_CD40L HEK-293 Cell Line
Mouse_CD40L CHO-K1 Cell Line	Rabbit_CD40L NIH-3T3 Cell Line
Anti-CD40 hIgG1 Reference Antibody (Sotibio)	Anti-CD40 hIgG1 Reference Antibody (Tenebio)

Anti-CD40L hIgG1 Reference Antibody (Frebio)	Anti-H_CD40 hIgG1 Antibody(APX005M)
Anti-H_CD40 hIgG1 Antibody(ravagalimab)	Anti-H_CD40L hIgG1 Antibody(dapirolizumab)
Anti-H_CD40L hIgG1 Antibody(frexalimab)	
Biotinylated Human CD40 Protein; His-Avi Tag	Cynomolgus CD40 Protein; His Tag
Human CD40 Protein; His Tag	Human CD40L Protein; His Tag
Human CD40L Protein; His Tag (Trimer Design)	
IFN-α	
IFNα Reporter HEK-293 Cell Line	IFNα Reporter MDCK Cell Line
IFNα Reporter THP1 Cell Line	
Human IFNA1 Protein; His Tag	Human IFNA2A Protein; His Tag
Human IFNG Protein; His Tag	Human IFNO Protein; His Tag
IFN-γ	
GAS Reporter HCT116 Cell Line	
BCMA:BAFFR:TACI	
H_BCMA KO MM.1R Cell Line	H_BAFFR Jurkat Blockade Reporter Cell Line
H_BAFFR Reporter Cell Line	H_BCMA Reporter 293 Cell Line
H_BCMA Reporter Cell Line	H_TACI Reporter Cell Line
Cynomolgus_BCMA CHO-K1 Cell Line	Cynomolgus_BCMA CHO-K1 Cell Line (Low Expression)
Cynomolgus_BCMA HEK-293 Cell Line	H_BAFFR CHO-K1 Cell Line
H_BAFFR HEK-293 Cell Line	H_BCMA CHO-K1 Cell Line (Low Expression)
H_BCMA HEK-293 Cell Line	Membrane Bound H_APRIL(Trimer) HEK-293 Cell Line
Anti-BAFF hIgG1 Antibody(belimumab)	Anti-BAFFR hIgG1 Antibody(ianalumab)
Anti-BCMA hIgG1 Antibody(Belantamab)	Anti-BCMA hIgG1 Antibody(SEA-BCMA)
Anti-BCMA hIgG4 Antibody(BCMB69)	Anti-CD3E×BCMA hIgG4 Reference Antibody (Tecbio)
Anti-TNFSF13B(BAFF) hIgG1 Reference Antibody (Belibio)	
Biotinylated Human BAFF Protein; His-Avi Tag	Biotinylated Human BCMA Protein; His-Avi Tag
Cynomolgus BAFF Protein; His Tag	Cynomolgus BCMA Protein; hFc Tag
Cynomolgus BCMA Protein; His Tag	Human APRIL Protein; hFc Tag
Human BCMA Protein; hFc Tag	Human BCMA Protein; His Tag
Mouse BAFF Protein; His Tag	
BDCA2(CLEC4C)	
H_BDCA2 Reporter DDX35TM Jurkat Cell Line	H_BDCA2 Reporter Jurkat Cell Line
Cynomolgus_BDCA2 CHO-K1 Cell Line	Cynomolgus_BDCA2 Jurkat Cell Line
H_BDCA2 CHO-K1 Cell Line	H_BDCA2 HEK-293 Cell Line
H_BDCA2 Jurkat Cell Line	
Anti-H_BDCA2 hIgG1 Antibody(Litifilimab)	
Cynomolgus BDCA2 Protein; His Tag	Human BDCA2 Protein; His Tag