

Product datasheet for TP723162

Interferon gamma (IFNG) (NM_000619) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interferon, gamma (IFNG).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR KRSQMLFQGR RASQ
Tag:	Tag Free
Predicted MW:	16.8 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Assay #1: Determined by its ability to induce apoptosis in HeLa cells. The expected ED50 for this effect is 5.0-10.0 ng/ml. Assay #2: The ED50 was determined by a cytotoxicity assay using HT-29 cells is less than or equal to 0.05 ng/ml, corresponding to a specific activity of > 2 x 10 ⁷ units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000610
Locus ID:	3458
UniProt ID:	P01579
RefSeq Size:	1240
Cytogenetics:	12q15
RefSeq ORF:	498
Synonyms:	IFG; IFI; IMD69


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Summary:

This gene encodes a soluble cytokine that is a member of the type II interferon class. The encoded protein is secreted by cells of both the innate and adaptive immune systems. The active protein is a homodimer that binds to the interferon gamma receptor which triggers a cellular response to viral and microbial infections. Mutations in this gene are associated with an increased susceptibility to viral, bacterial and parasitic infections and to several autoimmune diseases. [provided by RefSeq, Dec 2015]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Allograft rejection, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, Proteasome, Regulation of autophagy, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Type I diabetes mellitus

Product images:
