

## Product datasheet for PH309993

### Interferon gamma (IFNG) (NM\_000619) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	IFNG MS Standard C13 and N15-labeled recombinant protein (NP_000610)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209993
Predicted MW:	19.3 kDa
Protein Sequence:	>RC209993 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MKYTSYILAFQLCIVLGLGSLGCYCQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQS QIVSFYFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQVM AELSPAAKTGKRKRSQMLFRGRASQ  <b>TR</b> TRPLEQ <b>KL</b> ISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_000610</a></u>
RefSeq Size:	1240
RefSeq ORF:	498
Synonyms:	IFG; IFI; IMD69
Locus ID:	3458
UniProt ID:	<u><a href="#">P01579</a></u>



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**Cytogenetics:** 12q15

**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:



Coomassie blue staining of purified IFNG protein (Cat# [TP309993]). The protein was produced from HEK293T cells transfected with IFNG cDNA clone (Cat# [RC209993]) using MegaTran 2.0 (Cat# [TT210002]).