

Recombinant Horse IFNG protein

Cat. No. IFNG-440E Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Horse IFNG protein was expressed in Escherichia coli.
Species	Horse
Source	E.coli
ProteinLength	143
Description	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.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 2 × PBS, pH 7.4, with 5 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by an anti-viral assay using human HeLa cells infected with encephalomyocarditis (EMC) virus is less than 10.0 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁵ IU/mg.
Molecular Mass	Approximately 16.7 kDa, a single non-glycosylated polypeptide chain containing 143 amino acids.
AA Sequence	QAAFFKEIENLKEYFNASNPDVGGGPLFLDILKNWKEDSDKKIIQSQIVSFYFKLFEN LKDNQVIQKSMPTIKEDLFVKFFNSSTSKLEDFQKLIQIPVNDLKVQRKAISELIKVMN

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DLSPKANLRKRKRSQNPFRGRRALQ

Endotoxin Less than 0.1 EU/g of rEqIFN- γ as determined by LAL method.

Purity >97% by SDS-PAGE and HPLC analysis.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name IFNG

Official Symbol IFNG

Synonyms IFNG; interferon, gamma; interferon gamma; IFN-gamma;

Gene ID 100034181

mRNA Refseq NM_001081949

Protein Refseq NP_001075418

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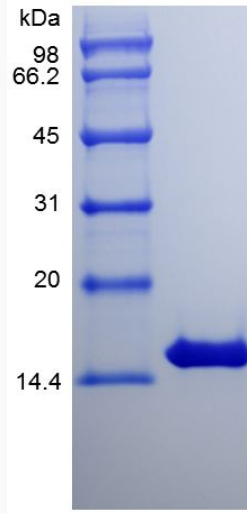
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UniProt ID

P42160

SDS-PAGE of IFNG-440E



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