Recombinant Human Interferon γ/IFNG Protein

Catalog Number: PKSH032612

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

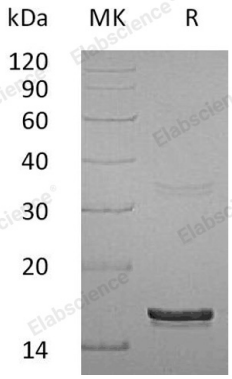
Description

Species	Human
Source	E.coli-derived Human Interferon γ;IFNG protein Gln24-Gln166, with an C-terminal His
Mol_Mass	17.7 kDa
Accession	P01579
Bio-activity	Measure by its ability to induce cytotoxicity in HT29 cells. The ED_{50} for this effect is <1 ng/mL. The specific activity of recombinant human IFN gamma is approximately >2 x 10^6 IU/mg.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.01 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

IFNγ is the major interferon produced by mitogenically or antigenically stimulated lymphocytes. It is structurally different from type I interferon and its major activity is immunoregulation. It has been implicated in the expression of class II histocompatibility antigens in cells that do not normally produce them; leading to autoimmune disease. Interferon gamma is produced mainly byT-cells and natural killer cells activated by antigens; mitogens; or alloantigens. It is produced by lymphocytes expressing the surface antigens CD4 and CD8. IFNγ synthesis is induced by IL-2; FGF-basic; and EGF.

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