IFN-gamma Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Immune interferon

Cat. No.:

RBG10182020	(20 µg)
RBG10182100	(100 µg)
RBG10182250	(250 µg)

Introduction to the Molecule

IFN? is a homodimeric glycoprotein containing approximately 21 to 24 kD subunits. Production of IFNg is a function of T cells and NK cells. IFN? is produced during infection by T cells of the cytotoxic/suppressor phenotype (CD8) and by a subtype of helper T cells, the Th1 cells. IFN? is a diagnostic tool for distinguishing tuberculous from other nontuberculous ascites. It is important in the design and monitoring of immunotherapy for multiple sclerosis.

Research topic

Animal studies, Cytokines and chemokines and related molecules

Amino Acid Sequence

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MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV
KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFQGR RASQ
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Source

E. coli

Purity

98%

Biological Activity

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 0.05 ng/ml, corresponding to a specific activity of 2×107 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com