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**YB90049Ov01**  
**Interferon Gamma (IFN $\gamma$ )**  
**Organism: Ovis aries; Ovine (Sheep)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

## **[ DESCRIPTION ]**

**Protein Names:** Interferon Gamma

**Gene Names:** IFN $\gamma$

**Size:** 100 $\mu$ g

**Source:** Recombinant

**Expression Host:** *E. coli*

**Function:** Produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.

**Subcellular Location:** Secreted

**Tissue Specificity:** Released primarily from activated T lymphocytes.

## **[ PROPERTIES ]**

**Residues:** Gln24~Met166 (Accession # P17773), with a N-terminal His-tag.

**Grade & Purity:** >97%, 18.44 kDa as determined by SDS-PAGE reducing conditions.

**Form & Buffer:** Supplied as lyophilized form in PBS, pH 7.4.

**Endotoxin Level:** <1.0 EU per 1 $\mu$ g(determined by the LAL method).

**Applications:** SDS-PAGE; WB; ELISA;IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 18.44 kDa

## **[ PREPARATION ]**

Reconstitute in PBS.



# Uscn

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### [ STORAGE AND STABILITY ]

**Storage:** Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

**Valid period:** 12 months stored at -80°C.

### [ BACKGROUND ]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSEF-QGPFFKE IENLKEYFNA SNPDVAKGGP LFSEILKNWK EESDKKIIQS QIVSFYFKLF  
ENLKDNQVIQ RSMDIKQDM FQKFLNGSSE KLEDFKRLIQ IPVDDLQIQR KAINELIKVM NDLSPKSNLR  
KRKRSQNLFR GRRASM

### [ REFERENCES ]

1. McInnes C.J., et al. (1990) Nucleic Acids Res. 18:4012-4012.



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