

Recombinant Full length Canine interferon gamma Protein, Tag Free

Cat. No. IFNG-33CFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The Canine IFN gamma recombinant protein was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.

Species

Canine

Source

Yeast

ProteinLength

1-166aa

Description

Interferon gamma (IFN γ) is a dimerized soluble cytokine that is the only member of the type II class of interferons. This interferon was originally called macrophage-activating factor, a term now used to describe a larger family of proteins to which IFN-gamma belongs. IFN-gamma, or type II interferon, is a cytokine that is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN-gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN-gamma in the immune system stems in part from its ability to inhibit viral replication directly, but, most important, derives from its immunostimulatory and immunomodulatory effects. IFN-gamma is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops.

Tag

Non

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Molecular Mass	16.7 kDa
AA Sequence	QAMFFKEIENLKEYFNASNPDVSDGGSLFVDILKKWREESDKTIQSQIVSFYKLFDN FKDNQIIQRSMDTIKEDMLGKFLNSSTSKREDFLKLIIQIPVNDLQVQRKAINELIKVMN DLSPRSNLRKRKRSQNLFRGRRASK(143)
Applications	The Canine IFN gamma endotoxin-free recombinant protein can be used in cell culture, as an IFN gamma ELISA Standard, and as a Western Blot Control.
References	1. TNF- α and INF- γ primed canine stem cell-derived extracellular vesicles alleviate experimental murine colitis. An JH, Li Q, Bhang DH, Song WJ, Youn HY. Sci Rep. 2020 Feb 7;10(1):2115. doi: 10.1038/s41598-020-58909-4.

GENE INFORMATION

Gene Name	IFNG interferon gamma [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	IFNG
Synonyms	IFNG; interferon gamma; IFN-G; IFN-gamma
Gene ID	403801
mRNA Refseq	NM_001003174
Protein Refseq	NP_001003174
UniProt ID	P42161

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