

**Animal-Free Recombinant Human IFN- $\lambda$ 1**  
**Catalog # PBG10536****Specification**

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**Animal-Free Recombinant Human IFN- $\lambda$ 1 - Product Information****Animal-Free Recombinant Human IFN- $\lambda$ 1 - Additional Information****Description**

IFN  $\lambda$ -1, -2, and -3 (also known as IL-29, IL-28A and IL-28B respectively) are distantly related to the IL-10 family and Interferons. All three IFN- $\lambda$ s use a distinct receptor system composed of an IFN- $\lambda$ R1 subunit (also called CRF2-12) and IL-10R2 subunit (also called CRF2-14). Signaling through this receptor system induces antiviral defense similar but distinct than the type I Interferons. (Kotenko, SV. et al. *Nat Immunology* 2003 [1] p. 69-77). Recombinant human IFN- $\lambda$  1 is a 19.8 kDa protein containing 178 amino acid residues.

**Biological Activity**

Determined by its ability to activate STAT phosphorylation in an ISRE Luciferase Reporter Assay using human colon carcinoma COLO205 cells. The expected ED<sub>50</sub> is 0.2-0.5 ng/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Human IFN- $\lambda$ 1 is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human IFN- $\lambda$ 1 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Animal-Free Recombinant Human IFN- $\lambda$ 1 - Images**