

## IFN-lambda2 Human E. coli

### Product Data Sheet

|                            |                  |          |
|----------------------------|------------------|----------|
| <b>Type:</b> Recombinant   | <b>Cat. No.:</b> |          |
| <b>Source:</b> E. coli     | RBG10184005      | (5 µg)   |
| <b>Species:</b> Human      | RBG10184020      | (20 µg)  |
| <b>Other names:</b> IL-28A | RBG10184100      | (100 µg) |

### 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-lambdas 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 defenses similar to, but distinct from, than that of type I interferons. Recombinant Human IFN- $\lambda$ 2 is a 19.6 kDa protein containing 174 amino acid residues.

### Research topic

Immune Response, Infection and Inflammation

### Amino Acid Sequence

PVARLHGALP DARGCHIAQF KSLSPQELQA FKRAKDALEE SLLLKDCRCH SRLFPRTWDL RQLQVRERPM ALEAELALTL  
KVLEATADTD PALVDVLDQP LHTLHHILSQ FRACIQPQPT AGPRTRGRLH HWLYRLQEAP KKESPGCLEA SVTFNLFRL  
TRDLNCVASSG DLVCV

### Source

E. coli

### Purity

98%

### 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 0.3-0.5 ng/ml.

### 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 0.5-1.0 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

|   |                               |                               |   |   |
|---|-------------------------------|-------------------------------|---|---|
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