



# Recombinant Human IFN-lambda2 (IL-28A)

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-194S</b>
Size:	5 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	282616
<b>Synonyms:</b>	IL28A; IFNL2; IL-28A;

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 uses a distinct receptor system composed of an IFN-lambdaR1 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. Recombinant murine IFN-lambda2 is a 19.8 kDa protein containing 175 amino acid residues.

### Sequence

```
PVARLHGALP DARGCHIAQF KSLSPQELQA FKRA KDALEE
SLLLKDCRCH SRLFPRTWDL RQLQVRERPM ALEAELALTL
KVLEATADTD PALVDVLDQP LHTLHHILSQ FRACIQFPPT
AGPRTGRRLH HWLYRLQEAP KKESPGCLEA SVTFNLFRLI
TRDLNCVASG DLCV
```

### Database References

<b>Protein RefSeq:</b>	NP_742150.1
<b>Uniprot ID:</b>	Q8IZJ0
<b>mRNA RefSeq:</b>	NM_172138

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	174
<b>MW:</b>	19.6 kDa

**Biological Activity:** Determined by its ability to activate STAT phosphorylation in an ISRE Luciferase Reporter Assay using human colon carcinoma COLO205 cells. The expected ED50 is 0.3-0.5 ng/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**