



Recombinant Protein Technical Manual  
Recombinant Mouse IFN-zeta/Limitin Protein (His  
Tag)  
RPES1489

Product Data:

**Product SKU:** RPES1489

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q9R1T0

Protein Information:

**Molecular Mass:** 19.5 kDa

**AP Molecular Mass:** 19 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Limitin; IFN-z; BGIF; Ifnz; interferon zeta; Lmtn; IFN-zeta

## Immunogen Information:

**Sequence:** Leu22-Arg182

## Background:

Limitin, also called IFN- $\zeta$ , is a secreted interferon (IFN)-like glycoprotein. Limitin has approximately 30% sequence homology with IFN- $\alpha$ , IFN- $\beta$ , and IFN- $\omega$  and binds to the IFN- $\alpha/\beta$  receptors. Like IFN- $\alpha$  and IFN- $\beta$ , limitin has antiproliferative, immunomodulatory, and antiviral properties, it is unique in lacking influence on myeloid and erythroid progenitors. Similar dose requirement between limitin and IFN- $\alpha$  was observed for the enhancement of cytotoxic T lymphocyte activity, the augmentation of MHC class I expression, and the growth inhibition of a myelomonocytic leukemia cell line.