

TECHNICAL DATA SHEET

Recombinant Mouse IFN-Lambda 2 (Carrier-Free)

Catalog Number: 21-9140

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Mouse IFN-Lambda 2 (Carrier-Free)

DESCRIPTION

IFN lambda1, 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- lambdaR1 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, that of type I interferons.

MOLECULAR MASS

Recombinant Mouse IFN- lambda2 is a 19.8 kDa protein containing 175 amino acid residues.

AMINO ACID SEQUENCE

MDPVPRATRL PVEAKDCHIA QFKSLSPKEL QAFKKAKDAI EKRLLEKDMR CSSHLISRAW DLKQLQVQER PKALQAEVAL TLKVWENMTD SALATILGQP LHTLSHIHSQ LQTCTQLQAT AEPKPPSRRL SRWLHRLQEA QSKETPGCLE DSVTSNLFRL LTRDLKCVAS GDQCV

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

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

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

Human, Mouse, Virus

BIOACTIVITY

Determined by its ability to activate STAT following receptor-ligand interaction.

RESEARCH AREAS

Diabetes/Weight Regulation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Fernández de Marco Mdel, M. The highly virulent variola and monkeypox viruses express secreted inhibitors of type I interferon. 2010. The FASEB Journal; 24(5):1479-88. Pott, J. IFN- λ determines the intestinal epithelial antiviral host defense. 2011. Proceedings of the National Academy of Sciences of the USA; 108(19):7944-9.

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