

## TECHNICAL DATA SHEET

# Recombinant Mouse IL-31 (Carrier-Free)

Catalog Number: 21-9132

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Mouse IL-31 (Carrier-Free)

#### DESCRIPTION

IL-31 is a T cell-derived cytokine that shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. It signals through a receptor complex comprised of GPL (also known as gp130-like receptor or IL-31RA) and Oncostatin-M receptor (OSMR). GPL/OSMR signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, JAK1, and JAK2 signaling pathways. IL-31-regulated immune responses have been implicated in skin physiology and inflammatory skin diseases.

#### MOLECULAR MASS

Recombinant Mouse IL-31 is a 15.8 kDa protein containing 141 amino acid residues.

#### AMINO ACID SEQUENCE

MTCSLSFGAP ISKEDLRRTI DLLKQESQDL YNNYSIKQAS GMSADESIQL PCFSLDREAL TNISVIAHL EKVKVLSENT VDTSWVIRWL TNISCFNPLN  
LNISVPGNTD ESYDCKVFVL TVLKQFSNCM AELQAKDNTT C

#### 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

N/A

#### BIOACTIVITY

Data not available at this time.

#### RESEARCH AREAS

Immune System, Inflammation

#### RECONSTITUTION

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

#### REFERENCES

Tan L, Lu J, Chen M, Xiang Y, Cheng Q, Liang Y, Huang J, Huang J, Chen J, Gao L. Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2017 Sep 28;42(9):1023-1029. doi: 10.11817/j.issn.1672-7347.2017.09.005. Medsker BH, Forno E, Han YY, Acosta-Pérez E, Colón-Semidey A, Alvarez M, Alcom JF, Canino GJ, Celedón JC. Ann Allergy Asthma Immunol. 2017 Jul;119(1):65-70.e3. doi: 10.1016/j.anai.2017.05.008.

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