

TECHNICAL DATA SHEET

Recombinant Human IL-36 gamma (IL-1F9) (Carrier-free)

Catalog Number: 21-8371

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-36 gamma (IL-1F9) (Carrier-free)

DESCRIPTION

IL-36 gamma (also known as IL-1F9) is a member of the IL-1 family of cytokines and binds to interleukin 1 receptor-like 2 (IL1RL2) and IL-1RAcP. IL-36 gamma displays proinflammatory effects and, along with the other IL-36 cytokines, can activate NF-κB and MAPK signaling pathways. It is reported to be expressed in cells including Langerhans cells, keratinocytes/stratified squamous epithelium, chief cells, parietal cells and bronchial epithelial cells. Expression of IL-36 gamma in the skin is elevated through contact hypersensitivity and psoriasis, as well as inflammatory lung disorders (like asthma) and viral infections.

MOLECULAR MASS

Recombinant human IL-36 gamma is a 17.0 kDa protein containing 152 amino acid residues.

AMINO ACID SEQUENCE

SMCKPITGTI NDLNQVWTL QGQNLVAVPR SDSVTPVTVV VITCKYPEAL EQGRGDPIYL GIQNPEMCLY CEKVGQPTL
QLKEQKIMDL YGQPEPVKPF LFYRAKTGRT STLESVAFPD WFIASSKRDQ PIILTSELGK SYNTAFELNI ND

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

BIOACTIVITY

Measured by its ability to induce IL-8 production by human PBMCs.

RESEARCH AREAS

Cancer; Diabetes / Weight Regulation; Immune System; Inflammation; Neurobiology; Proliferation; Wound Healing

RECONSTITUTION

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

REFERENCES

Debets R, Timans JC, Homey B, Zurawski S, Sana TR, Lo S, Wagner J, Edwards G, Clifford T, Menon S, Bazan JF and Kastelein RA. 2001. J Immunol. 167 (3): 1440-1446. Towne JE, Garka KE Renshaw BR, Virca GD and Sims JE. 2004. J Biol Chem. 279(14): 13677-113688. Ramadas RA, Ewart SL Medoff BD and LeVine AM. 2011. Am J Respir Cell Mol Biol. 44(2): 134-145. Kumar S, McDonnell PC, Lehr R, Tierney L, Tzimas MN, Gristwold DE, Capper EA, Tal-Singer R, Wells GI, Doyle ML and Young PR. 2000. J Biol Chem. 275(14): 10308-10314. Sims JE and Smith DE. 2010. Nat Rev Immunol. 10: 89-102.

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