

TECHNICAL DATA SHEET

Recombinant Human IL-36RA (Carrier-free)

Catalog Number: 21-8374

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human IL-36RA (Carrier-free)

DESCRIPTION

IL-36 Receptor Antagonist (IL-36RA, also known as IL-1F5) belongs to the IL-1 family of cytokines. Binding to the IL-1Rrp2 receptor induces various activities including dendritic cell maturation and activation, and inhibits activity of other IL-36 cytokines, namely IL-36 alpha, beta and gamma. Cells reported to express IL-36Ra include monocytes, B cells, dendritic cells/Langerhans cells, keratinocytes, and gastric fundus parietal and chief cells. IL-36RA can antagonize the activation of NF-kappaB, induced by interleukin 1 family member 6 (IL1F6).

MOLECULAR MASS

Recombinant human IL-36RA is an E. coli derived 17 kDa protein containing 154 amino acid residues.

AMINO ACID SEQUENCE

VLSGALCFRM KDSALKVLYL HNNQLLAGGL HAEKVIK GEE ISVVPNRALD ASLSPVILGV QGGSQCLSCG TEKGPILKLE PVNIMELYLG AKESKSFTFY RRDMLTSSF ESAAYPGWFL CTSPEADQPV RLTQIPEDPA WDAPITDFYF QQCD

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

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 inhibit IL-36 gamma induced IL-6 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

Barksby HE, Lea SR, Preshaw PM and Taylor JJ. 2007. Clin Exp Immunol. 149(2): 217-25. 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. 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. Vigne S, Palmer G, Lamacchia C, Martin P, Talabot-Ayer D, Rodriguez E, Ronchi F, Sallusto F, Dinh H, Sims JE and Gabay C. 2011. Blood. 118(22): 5813-5823.

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