



Interleukin-36 Receptor Antagonist, mouse recombinant (rmIL-36RN)

Catalog No: 97517
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-36 receptor antagonist protein, FIL1 delta, IL-1-related protein 3, IL-1RP3, Interleukin-1 HY1, IL-1HY1, Interleukin-1 delta, IL-1 delta, Interleukin-1 family member 5, IL-1F5, Interleukin-1 receptor antagonist homolog 1, IL-1ra homolog 1, Interleukin-1-like protein 1, IL-1L1, IL36RN, FIL1D, IL1F5, IL1HY1, IL1L1, IL1RP3, FIL1, PSORP, IL36RA, FIL1(DELTA)

Background

IL36RN belongs to the IL-1 family of proteins. IL36RN is produced as a 156 aa protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation site but, IL36RN is secreted as a 17 kDa monomer. Cells known to express IL36RN/IL1F5 include monocytes, B cells, keratinocytes, dendritic cells/Langerhans cells and gastric fundus Parietal and Chief cells.

Description

IL36RN mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 154 amino acids and having a molecular mass of 17.0 kDa. IL-36RN is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized IL36RN in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL 36RN, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL 36RN should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

VLSGALCFRM KDSALKVLYL HNNQLLAGGL HA EKVIK GEE ISVVPNRALD ASLSPVILGV QGGSQCLSCG TEKGPIKLE
PVNIMELYLG AKESKSFTFY RRD MGLTSSF ESAAYPGWFL CTSPEADQPV RLTQIPEDPA WDAPITDFYF QQCD

Activity

Fully biologically active when compared to standard. Measured by its ability to inhibit IL-36a, IL-36b or IL-36g induced IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.8 - 4 µg/ml (corresponding to a specific activity of 250 - 125 units/mg) in the presence of 15 ng/ml of recombinant mouse IL-36b.

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