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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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 HAEKVIKGE E ISVVPNRALD ASLSPVILGV QGGSQCLSCG TEKGPILKLE
PVNIMELYLG AKESKSFTFY RRDMLTSSF 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.



Usage

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