

Recombinant Mouse Interleukin-36 Receptor Antagonist (rm IL-36RN/IL1F5)

Synonyms: Interleukin-1 family member 5

Introduction: Mouse IL-36RN belongs to the IL-1 family of proteins. IL-36RN is produced as a 156 aa protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation site but, IL-36RN is secreted as a 17 kDa monomer. Cells known to express IL-36RN/IL1F5 include monocytes, B cells, keratinocytes, dendritic cells/Langerhans cells and gastric fundus Parietal and Chief cells.

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

Source: *Escherichia coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. The aliquotes of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IL-36RN in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-36RN although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rm IL-36RN should be stored at 4°C between 2-7days, 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 HAEKVIKGEE ISVVPNRALD
ASLSPVILGV QGGSQCLSCG TEKGPILKLE PVNIMELYLG AKESKSFTFY RRDMLTSSF ESAAYPGWFL
CTSPEADQPV RLQIPEDPA WDAPITDFYF QQCD

Biological 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 0.8-4µg/ml (corresponding to a specific activity of 250-125units/mg) in the presence of 15ng/ml of recombinant mouse IL-36b.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12346362
<i>medium</i>	10 µg	Cat.N°	12346363

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