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# Recombinant Mouse IL-36RA protein(His Tag)

Catalog Number: PKSM041482

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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**Species** Mouse

Source E.coli-derived Mouse IL-36RA protein Met 2-Asp 156, with an C-terminal His

Calculated MW17.8 kDaObserved MW17-25 kDaAccessionQ9QYY1

**Bio-activity** Measure by its ability to inhibit IL-36 gamma-induced IL-6 secretion in 3T3 cells. The

 $ED_{50}$  for this effect is <2  $\mu$ g/mL.

### **Properties**

**Purity** > 98 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4.

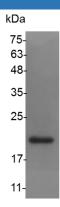
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

Human Interleukin-36 Receptor Antagonist (IL-36RN) is a secreted protein which belongs to the Interleukin 1 cytokine family (IL-1 family). IL-36RN is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. IL-36RN is also detected in the spleen, brain leukocyte and macrophage cell types. Increased in lesional psoriasis skin. IL-36RN is a highly and a specific antagonist of the IL-1 receptor-related protein 2-mediated response to Interleukin 1 family member 9 (IL1F9). Dysregulated expression of novel agonistic and antagonistic IL-1 family member ligands can promote cutaneous inflammation, revealing potential novel targets for the treatment of inflammatory skin disorders. Human and mouse IL-36RN share 90% sequence identity.

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