

Human IL1F5 / IL36RN Protein

Catalog Number: 10125-HNAE



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL1F5, IL36RN, FIL1D, IL1HY1, IL1L1, IL1RP3

Protein Construction:

A DNA sequence encoding the mature form of human IL1F5 (Q9UBH0) (Met1-Asp155) was expressed.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 99 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human IL1F5 consists of 156 amino acids and predicts a molecular mass of 17.1 KDa. It migrates as an approximately 18 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

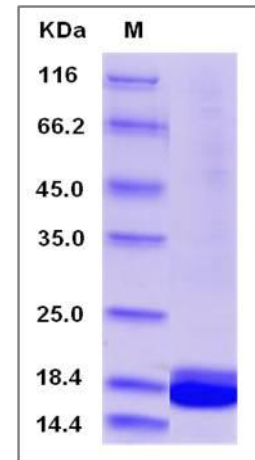
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Interleukin-1 family member 5, also known as Interleukin-1 delta, Interleukin-1-like protein 1, Interleukin-1 receptor antagonist homolog 1, IL-1-related protein 3, IL-1RP3 and IL1F5, is a secreted protein which belongs to the IL-1 family. IL1F5 / IL1RP3 is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. IL1F5 / IL1RP3 is also detected in the spleen, brain leukocyte and macrophage cell types. Increased in lesional psoriasis skin. Expression of IL1RL2, IL1F5, and IL1F6 is increased in human psoriatic skin. 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. IL1F5 / IL1RP3 is a highly and a specific antagonist of the IL-1 receptor-related protein 2-mediated response to interleukin 1 family member 9 (IL1F9). IL1F5 / IL1RP3 could constitute part of an independent signaling system analogous to interleukin-1 alpha (IL-1A), beta (IL-1B) receptor agonist and interleukin-1 receptor type I (IL-1R1), that is present in epithelial barriers and takes part in local inflammatory response.

References

1. Smith DE. et al., 2000, J Biol Chem. 275: 1169-75.
2. Barton JL. et al., 2000, Eur J Immunol. 30: 3299-308.
3. Debets R. et al., 2001, J Immunol. 167: 1440-6.
4. Blumberg H. et al., 2007, J Exp Med. 204 (11): 2603-14.

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