

Recombinant Mouse Interleukin-31 (II31)

Cat. No.: AP4C751

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Interleukin-31 (II31) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is n/a. The purity is > 90%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 90%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	n/a
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

Target Information

Mouse Interleukin-31 (II31) is a cytokine belonging to the IL-6 superfamily, which plays a crucial role in mediating inflammation and pruritus (itching). It is primarily produced by activated CD4+ T cells, monocytes/macrophages, and dendritic cells. II31 signals through a receptor complex composed of IL-31 receptor A (IL-31RA) and oncostatin M receptor (OSMR), activating downstream signaling pathways such as STAT3 and STAT5. This cytokine is particularly implicated in the pathogenesis of atopic dermatitis (AD), where it contributes to the recruitment of eosinophils and the production of pro-inflammatory cytokines. In mouse models, II31 has been shown to induce long-lasting scratching behavior, highlighting its role in itch sensation.

Protein	Mouse Interleukin-31 (II31)
Protein Synonym	II31
Gene ID	76399
EC No.	Q6EAL8

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in PBS or others. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.