

Recombinant Sheep Interleukin-4 (IL4), N-His

Cat. No.: AP1C131

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Sheep Interleukin-4 (IL4), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is N/A. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Sheep
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	N/A
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Sheep interleukin 4 (IL-4) is a cytokine that plays a pivotal role in the immune response of sheep, particularly in humoral immunity and allergic reactions. It is produced by activated CD4⁺ T cells, mast cells, and basophils, and it promotes the differentiation of naive T cells into Th2 cells, which are crucial for antibody production and immune regulation. IL-4 also stimulates the production of IgE and IgG4 in B cells, and it has been implicated in the regulation of allergic conditions and the protective immune response against extracellular parasites and helminths.

Protein	Sheep Interleukin-4 (IL4)
Protein Synonym	BSF1; BCGF1 ;B Cell Stimulatory Factor 1; Lymphocyte stimulatory factor 1; B Cell Growth Factor; Binetrakin; Pitrakinra
Gene ID	101122781
UniProt ID	P30368

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise 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.