

Recombinant Equine Interleukin-10 (IL10)

Cat. No.: AP9C998

Product Type: Animal Proteins

Size: 10 µg; 100 µg; 500 µg

Product Overview

BioVenic's Recombinant Equine Interleukin-10 (IL10) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 19.0 kDa. The purity is >90% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Equine
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Endotoxin	<1.0 EU/µg
Predicted Molecular Weight	19.0 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is 50 mM Tris-HCl, pH 8.0, 0.5 M NaCl and 50 % glycerol.

Target Information

Equine IL-10 protein plays a significant role in immunomodulation and inflammation. It is produced by various cell types, including Th2 cells, dendritic cells, activated macrophages, B cells, and mast cells. IL-10 is known for its suppressive effects on dendritic cells and macrophages, which inhibit the production of pro-inflammatory cytokines and IL-12, subsequently decreasing the development of Th1 cells. This cytokine is also involved in limiting and terminating the inflammatory response, and it has been shown to inhibit fibrosis, contributing to scar-free healing and restoring the normal extracellular matrix architecture in adult mice.

Protein	Equine Interleukin-10 (IL10)
Protein Synonym	Cytokine synthesis inhibitory factor (CSIF)
Gene ID	100034187
UniProt ID	Q28374

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 at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin. 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.