

Recombinant Swine Interferon Beta (IFNB1), N-His

Cat. No.: AP9C789

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Swine Interferon Beta (IFNB1), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 23.3 kDa. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Swine
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	23.3 kDa
Molecular Weight	23.0 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Target Information

Swine interferon beta (IFN-β) in swine is a type I interferon that is crucial for the host's antiviral response. It is produced in response to viral infections and plays a role in limiting viral replication and spreading by inducing an antiviral state in neighboring cells. IFN-β also has immunomodulatory functions, including the activation of natural killer (NK) cells and the enhancement of antigen presentation by dendritic cells, which are vital for initiating adaptive immune responses.

Protein	Swine Interferon Beta (IFNB1)
Protein Synonym	IFNB1; IFN-B; IFB; IFF; IFNB; Interferon Beta 1 Fibroblast
Gene ID	445459
UniProt ID	Q29412

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 $< -80^{\circ}\text{C}$ 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.