

Recombinant Zebrafish Interferon Gamma (IFN γ), N-His

Cat. No.: AP7F415

Product Type: Animal Proteins

Size: 10 μ g; 50 μ g; 200 μ g; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Zebrafish Interferon Gamma (IFN γ), N-His is a recombinant protein expressed from *E.coli* expression system. Its predicted molecular weight is 22.5 kDa. The purity is >90% (SDS-PAGE). The endotoxin level is <1 EU/ μ g (LAL). It can be used as a positive control or as an immunogen.

Specifications

Type	Recombinant Protein
Species	Aquaculture Species
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Endotoxin	<1 EU/ μ g (LAL)
Predicted Molecular Weight	22.5 kDa
Molecular Weight	23 kDa
Physical State	Lyophilized
Formulation	PBS, pH 7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

The zebrafish genome harbors ten genes encoding class II cytokine-like peptides, among which the two most closely related to mammalian interferon gamma (IFN-gamma) are termed IFN-gamma1 and IFN-gamma2. Studies indicate that the counterparts to the mammalian interferon-dependent defense mechanisms against viral and bacterial infections are active in zebrafish embryos. These findings suggest that zebrafish IFN-gamma1 and IFN-gamma2 perform functions analogous to those of mammalian IFN-gamma.

Protein	Zebrafish Interferon Gamma (IFN γ)
Protein Synonym	Interferon gamma; IFNG; Immune interferon; IFN-gamma
UniProt ID	Q9BDX4

Shipping and Storage

This product is shipped with dry ice. Avoid repeated freezing and thawing. Store for 4 weeks at 2-8°C, for 12 months at -80°C.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH 7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

Reference

Sieger, Dirk *et al.* "The role of gamma interferon in innate immunity in the zebrafish embryo." *Disease models & mechanisms* vol. 2, 11-12 (2009): 571-81.

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.