

Mouse Interferon Beta (IFN β) ELISA Kit-Sandwich

Cat. No.: EK5F418

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Interferon Beta (IFN β) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse IFN β in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Interferon Beta (IFN β).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	7.82-500 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Interferon beta is a type I interferon cytokine crucial in the innate immune response to infections, tumor development, and other inflammatory triggers. It signals by binding to high-affinity (IFNAR2) and low-affinity (IFNAR1) heterodimeric receptors, thereby activating the canonical Jak-STAT signaling pathway. This activation leads to the transcriptional activation or repression of interferon-regulated genes, which encode effectors of the interferon response, including antiviral proteins, cell proliferation and differentiation regulators, and immunoregulatory proteins. Interferon β has demonstrated significant anti-tumor activity in mouse tumor models. For instance, adenovirus-mediated IFN- β gene therapy can effectively inhibit tumor growth and induce tumor regression. In immunodeficient mice, IFN- β has exhibited notable anti-tumor effects by directly inhibiting tumor cell proliferation and survival.

Target/Biomarker	Mouse IFN β
Target Synonym	IFNB1; IFN-B; IFB; IFF; IFNB; Interferon Beta 1 Fibroblast; IFN Beta
Gene ID	15977

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

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.