

Recombinant Human IFNB1

Cat No:HR2R1513

For research use only

Overview

| Quantity | 1.0 ?g |
|-----------------------|--|
| Gene Symbol | IFNB1 |
| Gene ID | 3456 |
| Accession | P01574 |
| Alternative Name | IFN-beta, Immune interferon, Fibroblast interferon, Leukocyte interferon, B cell interferon, Type I interferon -Recombinant Human Interferon-Beta 1A (IFNB1) |
| Species | Human |
| Source Description | IFN-beta is produced mainly by fibroblasts and some epithelial cell types. The synthesis of IFN-beta can be induced by common inducers of interferons including viruses, double-stranded RNA, and micro-organisms. It is induced also by some cytokines such as TNF and IL-1. IFN-beta binds to the same receptor as IFN-alpha. IFN-beta is involved in the regulation of unspecific humoral immune responses and immune responses against viral infections. IFN-beta increases the expression of HLA class 1 antigens and blocks the expression of HLA class 2 antigens stimulated by IFN-gamma. IFN-beta stimulates the activity of natural killer cells and hence also antibody-dependent cytotoxicity. IFN-beta shows antiproliferative activity against a number of cell lines established from solid tumors. |
| Functions | The activity was determined by the viral resistance assay of Human WISH cells was found to be in the range of $3.0 \times 10^8 \text{ IU/mg}$. |
| Formulation | Recombinant IFN-b 1a was lyophilized from a 0.2 ?m filtered sodium acetate solution pH 4.8. |
| Solubility | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers. |
| Appearance | Lyophilized Powder |
| Molecular Weight | 19 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | <1.0 EU/?g of recombinant protein as determined by the LAL method. |
| Shipping Condition | Ambient Temperature |
| Storage Condition | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles |

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