# Recombinant Human IFNA1 (IFN-alpha1)

**Cat No:HR2R1504**

For research use only

## Overview

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|---|---|
| Quantity | 1.0 ?g |
| Gene Symbol | IFNA1 |
| Gene ID | 3439 |
| Accession | P01562 |
| Alternative Name | Interferon alpha-D, IFN-alpha-1/13, LeIF D, IFNA13 |
| Species | Human |
| Source | E. coli |
| Description | All known subtypes of IFN- alpha show the same antiviral antiparasitic, antiproliferative activities. IFN-alpha forms are produced by monocytes/macrophages, lymphoblastoid cells, fibroblasts, and a number of different cell types following induction by viruses, nucleic acids, glucocorticoid hormones, and low-molecular weight substances. All IFN-alpha subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-alpha subtypes differ in their sequences at only one or two positions. IFN-alpha and IFN-beta are thought to bind to the same receptor. Signal transduction mechanisms elicited after binding of IFN-alpha to its receptors involves tyrosine phosphorylation (see also: PTK; protein tyrosine kinase) of various non-receptor tyrosine kinases belonging to the Janus kinases. |
| Functions | N/A |
| Formulation | Lyophilized from a 0.2 ?m filtered solution in Tris and NaCl (pH 8.0) |
| Solubility | N/A |
| Appearance | Lyophilized Powder |
| Molecular Weight | 19.7 |
| 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. |