

## Recombinant Human Interferon-alpha1b/IFN-α1b, Tag Free

### Information

Gene ID	3439
Accession #	P01562
Alternate Names	rhIFN-α1b; IFN-α1b
Source	Escherichia coli.
Protein sequence	MCDLPETHSL DNRRTLMLLA QMSRISPSSC LMDRHDFGFP QEEFDGNQFQ KAPAI SVLHE LIQQIFNLF T TKDSSAAWDE DLLDKFCTEL YQQLNDLEAC VMQEERVGET PLMNVDSILA VKKYFRRITL YLTEKKYS PC AWEVVRAEIM RSLSLSTNLQ ERLRRKE
Tag	Tag Free
M.Wt	The protein has a calculated MW of 19.5 KDa.
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -2 years from date of receipt, -20 to -70 °C as supplied.
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a luciferase reporter gene assay using the ISRE-Luc/HEK293 stable cell line, with an EC50 of 0.8 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

### Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

### Description

IFN-αs are proteins secreted by white blood cells. They are mainly involved in the innate immune response to viral infections. There are 13 subtypes and 23 different variants of the IFN-α family. These individual proteins have molecular weights between 19-26 kDa and are composed of proteins with a length of 156-166 and 172 amino acids. All IFN-α isoforms share a common conserved sequence region between amino acid positions 115-151, while the amino terminus is variable. Many IFN-α isoforms differ in sequence only in one or two positions. Naturally occurring variants also include proteins that have 10 amino acids truncated at the carboxy terminus.



**APExBIO Technology**  
**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

