

Recombinant Human Interferon-beta 1alpha (rh IFN-beta 1a)

Synonyms: Leukocyte interferon, B cell interferon, Type I interferon, MGC96956

Introduction: Interferon-beta 1a has antiviral, antibacterial and anticancer activities.

Description: Recombinant human IFN-beta 1a produced in CHO (Chinese Hamster Ovarian) cells is a single, glycosylated polypeptide chain containing 166 amino acids and having a molecular mass of 22.5 kDa. Rh IFN-beta 1a is purified by proprietary chromatographic techniques.

Source: CHO (*Chinese Hamster Ovarian*) cells.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a solution containing 91 mg human albumin and 620 mg mannitol and 50mM acetate acid, pH3.8.

The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IFN-beta 1a in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IFN-beta 1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rh IFN beta-1a should be stored at 4°C between 2-7 days and for future use below -18°C For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 99.0% as determined by RP-HPLC and by SDS-PAGE.

Biological Activity: The specific activity as determined in a viral resistance assay (human "Wish" cell line and VSV virus or the monkey VERO cell line with EMCV virus) was found to be 2.7×10^8 IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	11343520
<i>medium</i>	20 µg	Cat.N°	11343524
<i>large</i>	100 µg	Cat.N°	11343526

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