

Recombinant Human IFN beta (Interferon beta)

Catalog # (Size): HZ-1298 (10µg) HZ-1299 (100µg) HZ-1300 (1000µg)

Product Description

- Animal-derived product free
- High Activity
- Lyophilized and Carrier Free (CF)
- Glycosylated

Xeno-free IFN beta^{HuXp} (IFN beta 1/ IFN beta 1a), is a member of type I family of interferons. It binds to a heterodimeric receptor, known as the IFN α / β receptor (IFNAR) resulting in activation of a number of Jak/ STAT proteins. Activation of this signaling pathway results in activation of genes that inhibit viral infection and regulate MHC class I antigens. It is primarily produced by fibroblasts and monocytes. In addition to inhibiting viral infection, IFN beta is also involved in regulating and activating immune response against bacteria, parasite and tumor cells. Multiple sclerosis is characterized by a deficiency of IFN beta 1. An injectable form of IFN beta 1 is used for MS treatment.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 0.1 ng/mL EC ₅₀
Purity	>95%
Endotoxin	<1 EU/ μ g
Molecular Mass	18 to 22 kDa, glycosylated
Formulation	Sodium Acetate pH 4.8 + 150mM NaCl + CHAPS

Purity Confirmation

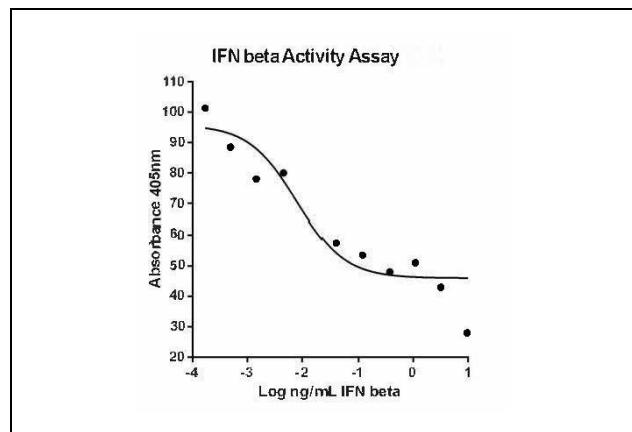
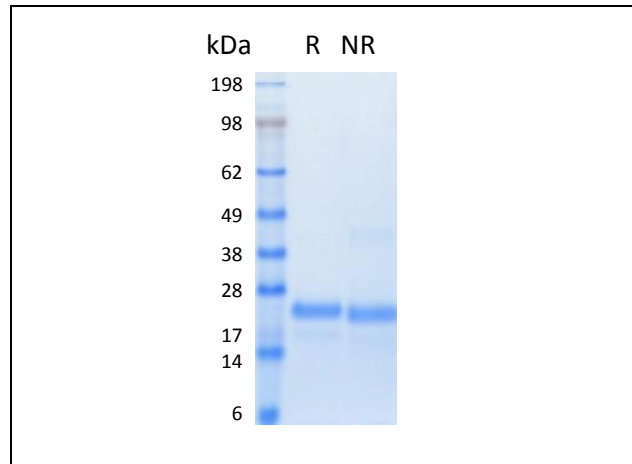
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by dose dependent inhibition of proliferation of TF-1 cells¹.



All HumaXpress[®] HumanKine[™] are animal-component-free and Xeno-free[™]



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile water.

Reference

- 1) Mire Slius et al., 1996, J. Immunol. Methods, 195 (55-61).

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