

Interferon-Beta 1a Human Recombinant

Item Number rAP-0456

Synonyms Leukocyte interferon, B cell interferon, Type I interferon, IFNB1, IFB, IFF, IFNB, IFN-b 1a ,MGC96956.

Description Interferon-beta 1a Human Recombinant produced in CHO (Chinese Hamster Ovarian) cells is a single, glycosylated polypeptide chain containing 166 amino acids and having a molecular mass of 22500 Dalton. IFN-beta1a is purified by proprietary chromatographic techniques.

Uniprot Accesion Number P01574

Amino Acid Sequence

Source CHO (Chinese Hamster Ovarian) cells.

Physical Appearance and Stability Lyophilized Interferon-beta 1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-Beta1a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Formulation and Purity Lyophilized from a solution (1mg/3.4ml) containing 91 mg Human Albumin, and 620 mg mannitol and 50mM Acetate acid pH 3.8. Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Application

Solubility It is recommended to reconstitute the lyophilized Interferon beta 1a in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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 270 x 10⁶ IU/mg.

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**