

PRODUCT INFORMATION

IFN beta 1a (Interferon beta 1a), Human

Catalog number	C01079-5UG / C01079-20UG / C01079-100UG
Package	5 µg / 20 µg / 100 µg
Description	Interferon-beta is, a cytokine, released by fibroblasts and pathogen-exposed dendritic cells, macrophages, and endothelial cells. IFN beta 1a conducts through the heterodimeric IFN-alpha/beta Receptor. IFN-beta-deficient mice are easier to suffer from experimental autoimmune encephalomyelitis (EAE), a disease model of human multiple sclerosis (MS). In addition, IFN-beta has been proved to suppress the Th17 cell response in both MS and EAE and is usually used to treat MS disease.
Source	<i>Escherichia coli</i>
Sequence	MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKE DAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKE DFTRGKLMSSLHLKRYYYGRILHYLKAKEYSHCAWTIVRVEILRNIFYFINRLTGYL RN with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce apoptosis in HeLa cells. The ED ₅₀ for this effect is <15 ng/mL. Measure by its ability to induce cytotoxicity in TF-1 cells. The ED ₅₀ for this effect is <0.1 ng/mL. The specific activity of recombinant human IFN beta 1a is approximately >1 x10 ⁷ IU/mg.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Note	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant human IFN beta 1a

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