

Recombinant Equine Ifnb1

Cat. No. Ifnb1-101E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Equine IFN beta 1 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Equine
Source	Yeast
Description	Type I interferons (IFN alpha, IFN beta) belong to the helical cytokine superfamily, which includes growth hormones, interleukins, several colony-stimulating factors plus other regulatory molecules. All function as regulators of cellular activity by interacting with cell-surface receptors and activating various signaling pathways. IFN beta produces antiviral, antibacterial, and anticancer properties. RANKL (TNFSF11) has been shown to induce the production of IFN beta.
Form	Lyophilized without carrier protein.
Molecular Mass	Equine IFN beta 1 has a predicted molecular weight of 19.5 kDa.
AA Sequence	SYDVLRYQQR SSNLACQKLL GQLPGTPQYC LEDRMNFEVP EEIMQPPQFQ KEDAVLIHE MLQQIFGILR RNFSSTGWNE TVIKTILVEL DGQMDDLETI LEEIMEEENF PRGDMTILHL KKYYSILQY LKSKEYRSCA WTVVQVEILR NFSFLNRLTD YLRN
Purity	>95% as visualized by SDS-PAGE analysis.

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Applications	The IFN beta protein can be used in cell culture, as a IFN beta ELISA Standard, and as a Western Blot Control.
Storage	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

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