

GRF-12031 Human Recombinant Interleukin-28A (Interferon λ 2)

Size: 20 ug

Synonyms: Interleukin-28A, IL-28A, IFN-Lambda 2, IFN-Lambda 2, Cytokine ZCYTO20, IL28A, IFNL2, ZCYTO20.

Introduction: IL-28A is distantly related to type I IFNs and the IL-10 family. Expression of IL-28A is induced by viral infection which interacts with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha. IL-28A exhibits common features with type I IFNs such as antiviral activity, antiproliferative activity and in vivo antitumour activity. IL-28A acts similarly to IFNs, but is less effective generally and has activity in a more limited range of cell lines. IFN- λ 1, IFN- λ 2 and IFN- λ 3 are closely positioned genes on human chromosome 19. IL-28A induces ELR(-) CXC chemokine mRNA in human peripheral blood mononuclear cells, in an IFN- γ -independent manner. IL-28A is able to generate tolerogenic DCs, an activity that could thwart IFN- β functions. IL-28A produced in response to viral infection, activates both monocytes and macrophages producing a restricted panel of cytokines and therefore is an important factor in activating innate immune responses at the site of viral infection.

Description: IL-28A human recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 19.6 kDa.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 μ m filtered solution containing no additives.

Solubility: It is recommended to reconstitute the lyophilized IL-28A in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Amino acid sequence: VPVAR LHGALPDARG CHIAQFKSLS PQELQAFKRAKDALEESLLL
KDCRCHSR LF PRTWDLRQLQ VRERPMALEA ELALTLKVLE ATADTDPALV
DVL DQPLHTL HHILSQFRAC IQPQPTAGPR TRGRLHHWLY RLQEAPKKES
PGCLEASVTFNLFRLLRDL NCVASGDLCV.

Purity: Greater than 85% as determined by (a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Stability: Lyophilized IFN-Lambda 2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-Lambda 2 Recombinant 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). Prevent freeze-thaw cycles

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