

32-1483: IL 18 Recombinant Protein

Alternative Name : Interferon-gamma-inducing factor,IGIF,IL-1g,IL-18,IL1F4,MGC12320,IFN-gamma-inducing factor,Interleukin-1 gamma,IL-1 gamma,Iboctadekin.

Description

Source : Escherichia Coli. Interleukin-18 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 157 amino acids and having a molecular mass of 18302 Dalton. The IL-18 is purified by proprietary chromatographic techniques. IL-18 is a proinflammatory cytokine. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.

Product Info

Amount : 25 µg
Purification : Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : Lyophilized from a concentrated (1mg/ml) solution in water containing 0.5x PBS pH=7.3.
Storage condition : Lyophilized Interleukin 18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL18 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).Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized Interleukin 18 in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependant stimulation of the IFN-g by human PBMC co-stimulated with IL-12 was found to be 5ng/ml corresponding to a Specific Activity of 200,000IU/mg.