

Recombinant Human IL-18

Catalog No : PMK2179

Known As: Interleukin-18; Iboctadekin; Interferon gamma-inducing factor; IFN-gamma-inducing factor; Interleukin-1 gamma; IL-1 gamma; GIF; IL-18; IL-1g; IL1F4; MGC12320

PROPERTIES

Description	Recombinant Human Interleukin-18 is produced by our E.coli expression system and the target gene encoding Tyr37-Asp193 is expressed.
Accession	Q14116
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Size	10 μg /50 μg /500 μg /1mg
Purity	> 95%
Endotoxin	< 1EU/ μg as determined by LAL test.
Predicted Mol Mass	18.2 KDa
Apparent Mol Mass	17 KDa, reducing conditions
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg /ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below..
Storage	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
Background	Interleukin-18 is a secreted protein and it belongs to the IL-1 family. IL-18 is a proinflammatory cytokine and produced by macrophages and other cells. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 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. After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon- γ (IFN- γ) or type II interferon that plays an important role in activating the macrophages or other cells.

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