

Recombinant Human IL18 Protein, His-tagged

Cat. No. IL18-94H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Interleukin-18 is produced by our Mammalian expression system and the target gene encoding Tyr37-Asp193 is expressed with a 6His tag at the C-terminus.

Species Human

Source Human Cells

ProteinLength 37-193 a.a.

Description 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.

Form Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.

Molecular Mass Predicted Molecular Weight: 19.25kDa
Apparent Molecular Weight: 23kDa, reducing conditions.

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AA Sequence	Tyr37-Asp193
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>90%
Storage	<p>Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.</p>
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Statement	Purity: Greater than 90% as determined by reducing SDS-PAGE.
Shipping	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>

GENE INFORMATION

Gene Name	IL18 interleukin 18 [Homo sapiens (human)]
Official Symbol	IL18
Synonyms	Interleukin-18; Iboctadekin; Interferon gamma-inducing factor; IFN-gamma-inducing factor; Interleukin-1 gamma; IL-1 gamma; GIF; IL-18; IL-1g; IL1F4; MGC12320; IGIF
Gene ID	3606

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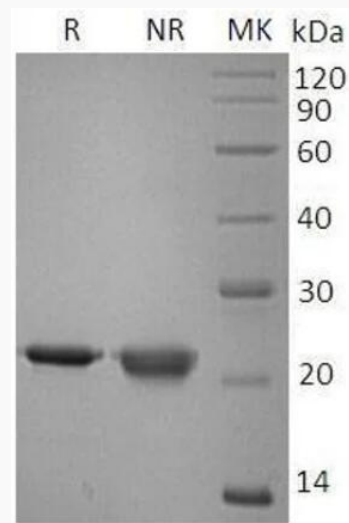
mRNA Refseq [NM_001243211.2](#)

Protein Refseq [NP_001230140.1](#)

MIM [600953](#)

UniProt ID [Q14116](#)

SDS-PAGE



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