

Active Recombinant Mouse Il18 Protein (Asn36-Ser192), C-His tagged, Animal-free, Carrier-free

Cat. No. Il18-53M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il18 Protein (Asn36-Ser192) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Asn36-Ser192
Description	Interleukin-18 (IL-18) belongs to the IL-1 superfamily and is constitutively produced by macrophages, dendritic cells (DCs) and other cells. IL-18 binds to the receptor of IL-18 (IL-18R) and initiate the recruitment and heterodimerization of the IL-18RACp, leading to downstream activation of NF-κB. After stimulation with IL-18, multiple cytokines including IFN-γ, IL-13, IL-4, IL-8, and GM-CSF and both Th1 and Th2 lymphokines could be produced by different cells. As an immunoregulatory cytokine, IL-18 can promote development of T helper 1 (Th1) cells, which maximizes the production of IFN by synergistically stimulating to mature Th1 effectors in combination with IL-12. On the contrary, it inhibits the production of the anti-inflammatory cytokine IL-10. In addition, IL-18 exhibits multiple proinflammatory functions, such as increases in cell adhesion molecules, nitric oxide synthesis, and chemokine production.
Form	Lyophilized
Bio-activity	Measure by its ability to induce IFN gamma secretion in KG-1 cells. The ED50 for this

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	effect is < 0.5 µg/mL.
Molecular Mass	The protein has a calculated MW of 19.1 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL18 interleukin 18 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL18
Synonyms	IL18; interleukin 18; interleukin-18; IL-1 gamma; interleukin-1 gamma; IFN-gamma-inducing factor; interferon gamma-inducing factor; interferon-gamma-inducing factor;

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Ig1f; Il-18;

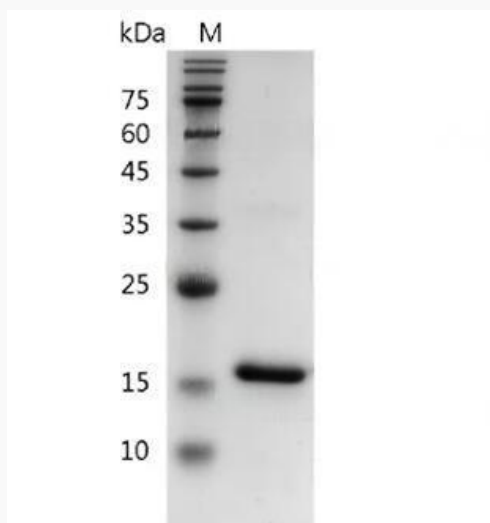
Gene ID 16173

mRNA Refseq NM_008360

Protein Refseq NP_032386

UniProt ID P70380

SDS-PAGE analysis
of recombinant
mouse IL-18.



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