

rHuIL-18

Recombinant Human Interleukin-18

Product	Cat#	Package size
Recombinant Human Interleukin-18	C4337.0005	5µg
Recombinant Human Interleukin-18	C4337.0025	25µg
Recombinant Human Interleukin-18	C4337.1000	1mg

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

Product description

IL-18 is a proinflammatory cytokine that can induce the IFN-gamma production of T cells. The combination of this cytokine and IL-12 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 IL-18, and thus negatively regulate its biological activity.

Recombinant human Interleukin-18 is expressed in *E.Coli* is a single, non-glycosylated polypeptide chain of 157 amino acids and a molecular mass of 18.2 kDa.

Source: *Escherichia coli*

Purity: Greater than 95% by SDS-PAGE.

Amino acid sequence

YFGKLESKLS VIRNLNDQYL FIDQGNRPLF EDMTDSDCRD NAPRTIFIIS MYKDSQPRGM AVTISVKCEK ISTLSCENKI ISFKEMNPPD NIKDTKSDII
 FFQRSVPGHD NKMVFESSY EGYFLACEKE RDLFKLILKK EDELGDRSIM FTVQNE

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.0.

Stability

Lyophilized recombinant Human IL-18 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution of recombinant Human IL-18 should be stored at +2°C to +8°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles.

Reconstitution

It is recommended to reconstitute the lyophilized recombinant Human IL-18 sterile PBS at 0.1mg/mL, which can then be further diluted to other aqueous solutions.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.

References

- 1.Title: Discovery of IL-18 As a Novel Secreted Protein Contributing to Resistance by Comparative Secretome Analysis of MCF-7 and MCF-7/Dox. Yao L, Zhang Y, Chen K, Hu X, Xu LX (2011) Discovery of IL-18 As a Novel Secreted Protein Contributing to Resistance by Comparative Secretome Analysis of MCF-7 and MCF-7/Dox. [PLoS ONE 6\(9\): e24684. doi:10.1371/journal.pone.0024684](https://doi.org/10.1371/journal.pone.0024684)
- 2.Title: Influence of Interleukin IL-2 and IL-12 + IL-18 on Surface Expression of Immunoglobulin-Like Receptors KIR2DL1, KIR2DL2, and KIR3DL2 in Natural Killer Cells. [Mediators of inflammation 2006 \(2006\).](https://doi.org/10.1002/inf.2006)