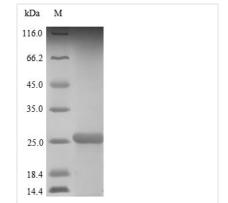






# Recombinant Human Interleukin-18 (IL18)

<b>Product Code</b>	CSB-YP614514HU(A4)
Relevance	Augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type I cells.
Abbreviation	Recombinant Human IL18 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q14116
Alias	Iboctadekin Interferon gamma-inducing factor
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAAEPVEDNCINFVAMKFIDNTLYFIAEDDENLESDYFGKLESKLSVIRNLNDQ VLFIDQGNRPLFEDMTDSDCRDNAPRTIFIISMYKDSQPRGMAVTISVKCEKIST LSCENKIISFKEMNPPDNIKDTKSDIIFFQRSVPGHDNKMQFESSSYEGYFLAC EKERDLFKLILKKEDELGDRSIMFTVQNED
Research Area	Immunology
Source	Yeast
Target Names	IL18
Expression Region	1-193aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	24.8kDa
Protein Length	Full?Length
Image	(Tris-Glycine gel) Discontinuous SDS-PAGE



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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## **Description**

The recombinant human IL18 protein is encoded by a recombinant DNA that was cloned into the expression vector and then transfected into the yeast cells that support the expression of the gene. The recombinant DNA was constructed by fusing the N-terminal 10xHis tag gene to the gene fragment coding for the 1-193aa of the human IL18 protein. After purification, the product is the recombinant human IL18 protein. This recombinant IL18 protein was subjected to the SDS-PAGE determination. Its purity reaches over 90% evaluated by Bandscan software analysis combined with SAS-PAGE. This IL18 protein ran to the molecular weight of about 25 kDa under SDS-PAGE condition. It may find use in immunology research.

Interleukin-18 (IL-18) belongs to the IL-1 family of cytokines. The inactive IL-18 precursor is synthesized as its active form by caspase-1. In humans, increased disease severity can be associated with an imbalance of IL-18. IL-18 has been found to be associated with the injury of different organs. Furthermore, the overly imbalance of cytokines could cause potentially fatal conditions such as a cytokine storm. IL-18 forms a signaling complex by binding to the IL-18 alpha chain. It has been reported that IL-18 is associated with hyperphagia and a variety of metabolic syndrome. Importantly, increasing numbers of animal and clinical studies indicate a role for IL-18 in heart disease.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Shelf Life

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