

Mouse IL18 / IL-18 Protein

Catalog Number: 50073-MNCE



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL18, Ig1f

Protein Construction:

A DNA sequence encoding the mouse IL18 (P70380) (Asn36-Ser192) was expressed and purified.

Source: Mouse

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio-Activity

Measured by its ability to induce IFN- γ secretion by KG-1 human myelomonocyte.
The ED50 for this effect is typically 0.1-0.8 μ g/mL.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant mouse IL18 consists of 158 amino acids and predicts a molecular mass of 18.2 KDa. It migrates as an approximately 19 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

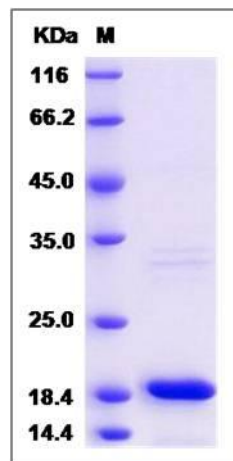
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Interleukin-18, also known as Interferon gamma-inducing factor, I β octadecin, IFN-gamma-inducing factor, Interleukin-1 gamma, IL-1 gamma IL1F4 and IL18, is a secreted protein which belongs to the IL-1 family. IL-18 / Interleukin-18 is related to the IL1 family by structure, receptors, signalling molecules, and function. IL18 induces gene expression and synthesis of tumour necrosis factor (TNF), IL1, Fas ligand, several chemokines, and vascular adhesion molecules. Similar to IL-1 β , IL-18 / Interleukin-18 is synthesised as a biologically inactive precursor molecule lacking a signal peptide. IL-18 / Interleukin-18 augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type 1 cells. Rheumatoid arthritis (RA) is a complex autoimmune disease with a strong genetic contribution to its pathogenesis. Interleukin-18 (IL-18) is a proinflammatory cytokine involved in the pathogenesis of RA. IL-18 / Interleukin-18 is also a proinflammatory cytokine whose levels are increased in the subclinical stage of insulin-dependent (type I) diabetes mellitus.

References

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2. Liew FY. et al., 2002, Ann Rheum Dis. 61 Suppl 2: ii100-2.
3. Martin RJ. et al., 2005, Genes Immun. 6?(2): 171-4.
4. Sakai K. et al., 2008, J Infect Dis. 197?(12): 1752-61.
5. Pawlik A. et al., 2009,?Scand J Rheumatol. 38?(3): 159-65.

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