

IL-18 Protein, Human, Recombinant V2

General Information

Synonyms:	IL-1g;IGIF;IL1F4;Interleukin 18;IL-18
Protein Construction:	Tyr37-Asp193
Species:	Human
Expression Host:	E. coli
Accession:	Q14116
Molecular Weight:	18.2 kDa (Predicted and reducing conditions)

QC Testing

Biological Activity:	Immobilized Human IL-18 at 5 µg/ml (100 µl/Well) on the plate. Dose response curve for Human IL-18BP, hFc Tag with the EC50 of 16.9 ng/ml determined by ELISA (QC Test). Human IL-18 R1, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-18, No Tag with an affinity constant of 2.38 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 20 mM PB, 250 mM NaCl, 50 mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin (IL)-18 was originally discovered as a factor that enhanced IFN-γ production from anti-CD3-stimulated Th1 cells, especially in the presence of IL-12. Upon stimulation with Ag plus IL-12, naïve T cells develop into IL-18 receptor (IL-18R) expressing Th1 cells, which increase IFN-γ production in response to IL-18 stimulation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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