

IL-1 beta/IL-1F2 Protein , Human, Recombinant V2

General Information

Synonyms:	IL-1 beta;IL1F2;IL1- β ;IL-1 β ;interleukin 1, β ;interleukin 1, beta;IL1-BETA;IL-1;IL-1B
Protein Construction:	Ala117-Ser269
Species:	Human
Expression Host:	E. coli
Accession:	P01584
Molecular Weight:	17.5 kDa (Predicted); 17 kDa (Reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to induce NF- κ B signaling in 293-IL1 Res cells. The ED50 for this effect is 20-100 pg/mL.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.01 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/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

IL1B belongs to the IL-1 family. Interleukin 1 (IL-1) is a family of polypeptide cytokines consisting of two agonists, IL-1 alpha (IL-1F1) and IL-1 beta (IL-1F2) encoded by two distinct genes and perform identical biological functions. IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response. It is identified as endogenous pyrogens, and is reported to stimulate the release of prostaglandin and collagenase from synovial cells.

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