

IL-1 beta/IL-1F2 Protein, Cynomolgus, Recombinant (His & Avi), Biotinylated

General Information

Protein Construction:	Ala117-Ser268
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	A0A2K5VDC7
Molecular Weight:	20.14 kDa (Predicted); 22-24 kDa (Reducing condition)

QC Testing

Biological Activity:	Immobilized Human IL-1R2, hFc Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus IL-1 Beta, His Tag with the EC50 of 15.3 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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-1 beta (IL-1β) is induced by inflammatory signals in a broad number of immune cell types. IL-1β (and IL-18) are the only cytokines which are processed by caspase-1 after inflammasome-mediated activation. IL-1 signaling activates innate immune cells including antigen presenting cells, and drives polarization of CD4 T cells towards T helper type (Th) 1 and Th17 cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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