

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

### General Information

Synonyms:	IL1F2;IL1B;IL-1 $\beta$ ;interleukin 1, beta;IL-1beta;IL-1;interleukin 1, $\beta$ ;IL1beta;IL-1b;IL1-BETA;interleukin 1 beta;IL-1 $\beta$
Protein Construction:	Val118-Ser269
Species:	Mouse
Expression Host:	E. coli
Accession:	P10749
Molecular Weight:	20.30 kDa (Predicted); 20-25 kDa (Reducing condition)

### QC Testing

Biological Activity:	Immobilized Biotinylated Mouse IL-1 Beta, His Tag at 2 $\mu$ g/ml (100 $\mu$ l/well) on the streptavidin precoated plate (5 $\mu$ g/ml). Dose response curve for Human IL-1 R2, hFc Tag with the EC50 of 25.4 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 $\mu$ m 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  $\mu$ 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:

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-1 $\beta$ ) is induced by inflammatory signals in a broad number of immune cell types. IL-1 $\beta$  (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.

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