

## IL-1 alpha/IL-1A Protein, Mouse, Recombinant (His)

### General Information

Protein Construction: Ser115-Ser270

Species: Mouse

Expression Host: HEK293 Cells

Accession: P01582

Molecular Weight: 19.08 kDa (Predicted); 24-30 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity: Mouse IL-1R1, His Tag immobilized on CM5 Chip can bind Mouse IL-1 alpha, His Tag with an affinity constant of 51.22 nM as determined in SPR assay (Biacore T200).

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

The interleukin (IL)-1 family of cytokines is currently comprised of 11 members that have pleiotropic functions in inflammation and cancer. IL-1 $\alpha$  and IL-1 $\beta$  were the first members of the IL-1 family to be described, and both signal via the same receptor, IL-1R. Over the last decade, much progress has been made in our understanding of biogenesis of IL-1 $\beta$  and its functions in human diseases.

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