

## IL-1 alpha/IL-1A Protein, Cynomolgus, Recombinant

### General Information

Protein Construction: Ser113-Ala271

Species: Cynomolgus

Expression Host: HEK293 Cells

Accession: P79340

Molecular Weight: 18.13 kDa (Predicted); 26-33 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity: Human IL-1R1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-1 alpha, No Tag with an affinity constant of 10.68  $\mu\text{M}$  as determined in SPR assay (Biacore T200).

Purity: > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/ $\mu\text{g}$  of the protein as determined by the LAL method.

Formulation: Supplied as 0.22  $\mu\text{m}$  filtered solution in PBS (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store recombinant proteins at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  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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