

## 32-7034: Recombinant Mouse Interleukin-1a/IL-1a

**Gene :** Il1a  
**Gene ID :** 16175  
**Uniprot ID :** P01582

### Description

Source: E.coli.  
MW :18kD.

Recombinant Mouse Interleukin-1 alpha is produced by our E.coli expression system and the target gene encoding Ser115-Ser270 is expressed. Mouse Interleukin-1 (IL-1) designates two proteins, IL-1a and IL-1 beta, which are the products of distinct genes, but recognize the same cell surface receptors. IL-1a and IL-1 beta are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins. The proteins are synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17.5 kDa.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 200mM NaCl, pH 8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** SAPYTYQSDLRYKLMKLVQRQKFMNDSLNTIYQDVDPKHYLSTTWLNDLQQEVKFDMYAYSSGGDDSKYPVT  
LKISDSQLFVSAQGEDQPVLLKELPETPKLITGSETDLIFFWKSINSKNYFTSAAYPELFATKEQSRVHLARGLP  
SMTDFQIS

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

**Biological Activity :** ED50 is less than 0.01 ng/ml. Specific Activity of 1.0 x 10<sup>8</sup> IU/mg.