

## 32-12131: Human Interleukin-1 beta (AF)

**Gene :** IL1B  
**Gene ID :** 3553  
**Uniprot ID :** P01584  
**Alternative Name :** Catabolin, IL1F2

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 17.5 kDa (154 aa)

Interleukin 1 beta (IL-1beta) is a pro-inflammatory cytokine that is produced by monocytes, macrophages, and dendritic cells (DCs). IL-1beta signals through the IL-1 receptor, type 1 (IL-1R1) to activate the myeloid differentiation primary response 88 (MYD88) signaling pathway, which contains the cytoplasmic Toll/IL-1 receptor (TIR) domain adapter. IL-1beta and the independently regulated IL-1alpha protein have overlapping pro-inflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Content :**  
**Storage condition :** Store at -20°C  
**Amino Acid :** MAPVRS LNCT LRDSQQKSLV MSGPYELKAL HLQGQDMEQQ VVFSMSFVQG EESNDKIPVA LGLKEKNLYL SCVLKDDKPT LQLESVDPKN YPKKKMEKRF VFNKIEINN LEFESAQFPN WYISTSQAEN MPVFLGGTKG QGDITDFTMQ FVSS

### Application Note

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

Biological Activity was determined by D10S cell proliferation at  $\leq 12$  pg/mL;  $\geq 8.3 \times 10^7$  units/mg (typical ED50 is  $< 1$  pg/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



