



# Recombinant Protein Technical Manual

## Recombinant Human IL beta/IL1B Protein

RPES2145

### Product Data:

**Product SKU:** RPES2145

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01584

### Protein Information:

**Molecular Mass:** 17.5 kDa

**AP Molecular Mass:** 17 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** IL; IL beta; ILB; IL1-BETA; IL1F2

## Immunogen Information:

**Sequence:** Ala117-Ser269

## Background:

IL1B belongs to the IL family. Interleukin 1 (IL) is a family of polypeptide cytokines consisting of two agonists, IL alpha (ILF1) and IL beta (ILF2) encoded by two distinct genes and perform identical biological functions. IL stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL proteins are involved in the inflammatory response. It is identified as endogenous pyrogens, and is reported to stimulate the release of prostaglandin and collagenase from synovial cells.