



Recombinant Protein Technical Manual

**Recombinant *Cavia porcellus* ILb/IL beta/ILF2
Protein (His Tag)
RPES4195**

Product Data:

Product SKU: RPES4195

Size: 10µg

Species: *Cavia porcellus*

Expression host: *E. coli*

Uniprot: Q9WVG1

Protein Information:

Molecular Mass: 18.2 kDa

AP Molecular Mass: 169 kDa

Tag: C-His

Bio-activity:

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

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

Storage: 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.

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

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

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

Application:

Synonyms: Interleukin beta; IL beta; IL1B; IL1b

Immunogen Information:

Sequence: Thr115-Ser266

Background:

Interleukin beta (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.