



Recombinant Protein Technical Manual

Recombinant Human Interleukin1/IL1 Protein

RPES1750

Product Data:

Product SKU: RPES1750

Size: 10µg

Species: Human

Expression host: P. pastoris

Uniprot: P20809

Protein Information:

Molecular Mass: 19 kDa

AP Molecular Mass: 19 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 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 20mM PB, 2% Glycine, pH 7.2.

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

Application:

Synonyms: Interleukin1; IL1; Adipogenesis Inhibitory Factor; AGIF; Oprelvekin; IL11

Immunogen Information:

Sequence: Gly23-Leu199

Background:

Interleukin 11 (IL11) is a member of a family of human growth factors that includes human growth hormone, granulocyte colony-stimulating factor, and other growth factors. IL11 is a thrombopoietic growth factor that directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. It also promotes the proliferation of hepatocytes in response to liver damage. Binding to its receptor formed by IL6ST and either IL11RA1 or IL11RA2, It activates a signaling cascade that promotes cell proliferation. The signaling leads to the activation of intracellular protein kinases and the phosphorylation of STAT3.