



Recombinant Protein Technical Manual

**Recombinant Human Interleukin2/IL2 Protein
(Active)**
RPES1195

Product Data:

Product SKU: RPES1195

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_002178.2

Protein Information:

Molecular Mass: 22.5&34.7 kDa

AP Molecular Mass: 40-50 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using antibody against CD3-activated human peripheral blood lymphocytes (PBL). The ED50 for this effect is 0.1-0.5ng/ml.

Purity: > 90 % 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 PBS, pH7.4.

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

Application: Cell Culture

Synonyms: CLMF;CLMF2;IL2A;IL2B;IL12;IL12 p70;IMD28;IMD29;NFSK;NKSF;NKSF1;NKSF2;P35

Immunogen Information:

Sequence: Arg23-Ser219&Ile23-Ser328

Background:

IL2 is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit. Human and mouse IL2 share 70% and 60% amino acid sequence identity in their p40 and p35 subunits, respectively. IL2 is involved in the differentiation of naive T cells into Th1 cells. It is known as a T cell-stimulating factor, which can stimulate the growth and function of T cells. It stimulates the production of interferon-gamma (IFN- γ) and tumor necrosis factor-alpha (TNF- α) from T cells and natural killer (NK) cells, and reduces IL-4 mediated suppression of IFN- γ . T cells that produce IL2 have a coreceptor, CD30, which is associated with IL2 activity. IL2 plays an important role in the activities of natural killer cells and T lymphocytes. IL2 mediates enhancement of the cytotoxic activity of NK cells and CD8+ cytotoxic T lymphocytes.