



Recombinant Protein Technical Manual

Recombinant Mouse Interleukin2/IL2 Protein

RPES1547

Product Data:

Product SKU: RPES1547

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P43432&P43431

Protein Information:

Molecular Mass: 35.8&21.7 kDa

AP Molecular Mass: 42-50 kDa

Tag:

Bio-activity:

Purity: > 90 % as determined by 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:

Synonyms: IL2; Interleukin 12; Interleukin2 subunit alpha;IL2A;Cytotoxic lymphocyte maturation factor 35 kDa subunit;CLMF p35;IL2 subunit p35;Interleukin2 subunit beta; IL2B; Cytotoxic lymphocyte maturation factor 40 kDa subunit; CLMF p40; IL2 subunit p40;

Immunogen Information:

Sequence: Met23-Ser335&Arg23-Ala215

Background:

Mouse 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. While mouse IL2 is active on both human and mouse cells, human IL2 is not active on murine cells. It 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.