



Recombinant Protein Technical Manual

Recombinant Mouse Interleukin-2/IL-2 Protein (Active) RPES1396

Product Data:

Product SKU: RPES1396

Size: 10µg

Species: Mouse

Expression host: E. coli

Uniprot: P04351

Protein Information:

Molecular Mass: 17.4 kDa

AP Molecular Mass: 17 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Human IL-2 is $\geq 1 \times 10^7$ IU/mg.

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 Sodium Citrate, 0.2% Tween 80, pH 3.0.

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

Application: Cell Culture

Synonyms: IL2; Aldesleukin; Interleukin 2; Interleukin-2; IL-2; IL2; T-cell growth factor; T cell growth factor; TCGF

Immunogen Information:

Sequence: Ala21-Gln169

Background:

Interleukin 2 (IL 2), also termed T-cell growth factor, is a member of the cytokine family which includes IL-4, IL-7, IL-9, IL5 and IL-21. Each member of this family has a four alpha helix bundle. IL-2 signals through the IL-2 receptor, a complex consisting of three subunits, termed alpha, beta and gamma. The IL-2 R gamma is shared by cytokine receptors of all members of cytokine family. Mature mouse IL-2 shares 56% and 73% aa sequence identity with human and rat IL-2, respectively. IL-2 is produced by CD4+ T cell, CD8+ T cells, gamma δ T cells, B cells, dendritic cells and eosinophils, and plays a vital role in key function of the immune system, tolerance and immunity, primarily via its potent stimulatory activity for T cells. Thus, IL-2 may be a key cytokine in the natural suppression of autoimmunity.