A Reliable Research Partner in Life Science and Medicine

# Recombinant Mouse Interleukin-2/IL-2 Protein (active)

Catalog Number: PKSM041523

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

**Species** Mouse

Source HEK293 cells-derived Mouse Interleukin-2/IL-2 protein Ala21-Gln169, with an C-

terminal His

Calculated MW 18.07 kDa Observed MW 22-25 kDa Accession P04351

**Bio-activity** Measured in a cell proliferation assay using HT-2 mouse T cells. The ED<sub>50</sub> for this

effect is 0.88-3.5 ng/mL, corresponding to a specific activity of 2.86×105-1.14×106

units/mg.

### **Properties**

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

Endotoxin  $\leq$ 0.1 EU per µg by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 Storage

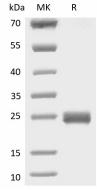
°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

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

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Formulation Reconstitution Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Interleukin-2(IL-2) is an interleukin; a type of cytokine signaling molecule in the immune system; belongs to the IL-2 family. It is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells; NK cells; lymphokine-activated killer cells; monocytes; macrophages and oligodendrocytes.

For Research Use Only