A Reliable Research Partner in Life Science and Medicine

## Recombinant Rat IL-2 Protein(hlgG1 Fc Tag)

Catalog Number: PDMR100106

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

#### Description

**Species** Rat

Source Mammalian-derived Rat IL-2 protein Ala21-Gln155, with an C-terminal hIgG1 Fc

 Calculated MW
 39.7 kDa

 Observed MW
 40 kDa

 Accession
 P17108

**Bio-activity** Not validated for activity

#### **Properties**

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

**Endotoxin** < 1.0 EU/mg of the protein as determined by the LAL method

**Storage** Generally, 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.

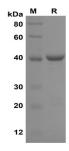
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

#### Data



SDS-PAGE analysis of Rat IL-2 proteins,2µg/lane of Recombinant Rat IL-2 proteins,was resolved with SDS-PAGE under reducing conditions,showing bands at 40 KD

#### Background

# Elabscience®

### Elabscience Biotechnology Co., Ltd.

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Interleukin-2(IL-2) is a O-glycosylated four  $\alpha$ -helix bundle cytokine that has potent stimulatory activity for antigenactivated T cells. It is expressed by CD4+ and CD8+ T cells,  $\gamma\delta$  T cells, B cells, dendritic cells, and eosinophils. Mature rat IL-2 shares 66% and 73% amino acid sequence identity with human and mouse IL-2,respectively. The receptor for IL-2 consists of three subunits that are present on the cell surface in varying preformed complexes. IL-2 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.