

Recombinant Human Interleukin-2/IL-2 Protein (Mutant)

Catalog Number: PKSH033625

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

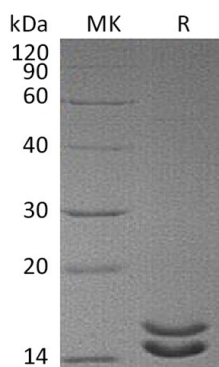
Description

Species	Human
Source	HEK293 Cells-derived Human Interleukin-2/IL-2 protein Ala21-Thr153(L100F, R101D,L105V,I106V,I112F), with an C-terminal His
Calculated MW	16.5 kDa
Observed MW	16&18 kDa
Accession	P60568
Bio-activity	Measured in a cell proliferation assay using CTLL- 2 mouse cytotoxic T cells. The ED ₅₀ for this effect is 151.39 pg/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 4mM HCl. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
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. New research has shown that IL-2 mutant reduced toxicity while being more potent at stimulating anti-tumor effector immune cells.

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