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

Catalog No. PKSH033625

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

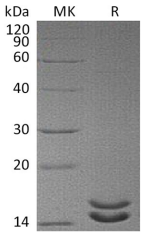
Description

Synonyms	Interleukin-2;IL-2;T-Cell Growth Factor;TCGF;Aldesleukin;IL3
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala21-Thr153(L100F,R101D,L105V,I106V,I112F)
Accession	P60568
Calculated Molecular Weight	16.5 kDa
Observed molecular weight	16&18 kDa
Tag	C-His
Bioactivity	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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween80 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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