

## Recombinant Human Mouse IL-2

Catalog No : PMK2123

**Known As:** aldesleukin; interleukin 2; interleukin-2; IL-2; IL2; T-cell growth factor; T cell growth factor; TCGF

### PROPERTIES

Description	Recombinant Mouse Interleukin-2 is produced by our E.coli expression system and the target gene encoding Ala21-Gln169 is expressed.
Accession	P04351
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Sodium Citrate, 0.2% Tween 80, pH 3.0.
Size	10µg/50µg/500µg/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/µg as determined by LAL test.
Predicted Mol Mass	17.4 KDa
Apparent Mol Mass	17 KDa, reducing conditions
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
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, IL-15 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 IL2 shares 56% and 73% aa sequence identity with human and rat IL2, 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, IL2 may be a key cytokine in the natural suppression of autoimmunity.

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