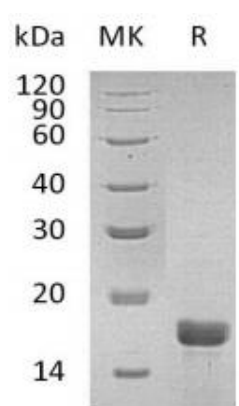


## Recombinant Mouse IL-2

Catalog#:P00198    Derived from *E.coli*

<b>DESCRIPTION</b>	Recombinant Mouse Interleukin-2 is produced by our <i>E.coli</i> expression system and the target gene encoding Ala21-Gln169 is expressed. <b>Accession#:</b> P04351 <b>Known as:</b> aldesleukin; interleukin 2; interleukin-2; IL-2; IL2; T-cell growth factor; T cell growth factor; TCGF
<b>FORMULATION</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Sodium Citrate, 0.2% Tween 80, pH 3.0.
<b>SHIPPING</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>STORAGE</b>	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.
<b>RECONSTITUTION</b>	<i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100<math>\mu</math>g/ml.</i> Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>QUALITY CONTROL</b>	<b>Bioactivity:</b> Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Mouse IL-2 is $\geq 1 \times 10^7$ IU/mg. <b>Mol Mass:</b> 17.4kDa <b>AP Mol Mass:</b> 17kDa, reducing conditions. <b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE. <b>Endotoxin:</b> Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
<b>BACKGROUND</b>	Interleukin 2 (IL 2), also termed T-cell growth factor, is a member of the cytokine family which includes IL4, 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 IL-2 shares 56% and 73% aa sequence identity with human and rat IL-2, respectively. IL-2 is produced by CD4+ T cell, CD8+ T cells, gamma $\delta$ 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, IL-2 may be a key cytokine in the natural suppression of autoimmunity.
<b>SDS-PAGE</b>	 <p>kDa    MK    R</p> <p>120</p> <p>90</p> <p>60</p> <p>40</p> <p>30</p> <p>20</p> <p>14</p>