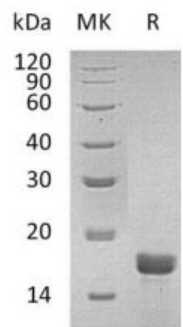
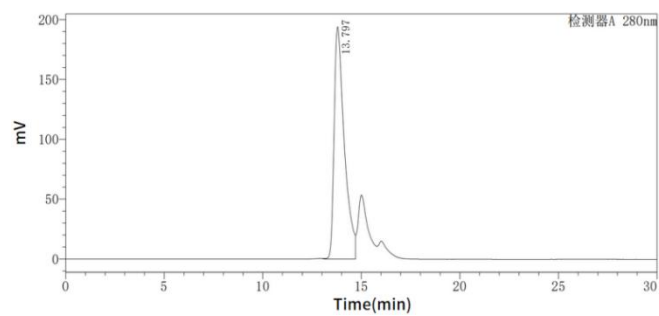


## Recombinant Mouse IL-2

Catalog#:P00198    Derived from *E.coli*

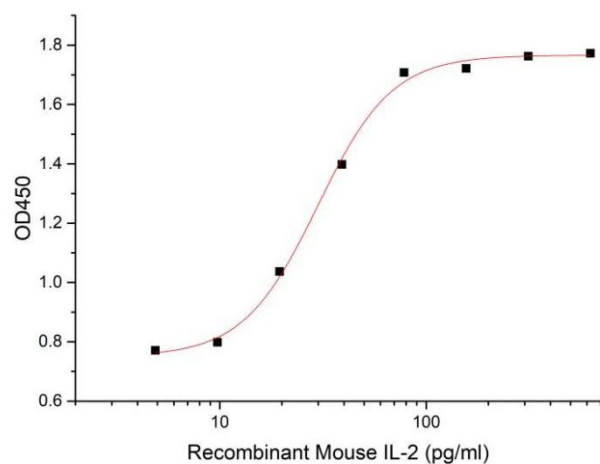
<b>DESCRIPTION</b>	<p>Recombinant Mouse Interleukin-2 is produced by our E.coli expression system and the target gene encoding Ala21-Gln169 is expressed.</p> <p><b>Accession#:</b> P04351</p> <p><b>Known as:</b> aldesleukin; interleukin 2; interleukin-2; IL-2; IL2; T-cell growth factor; T cell growth factor; TCGF</p>
<b>FORMULATION</b>	Lyophilized from a 0.2 μm filtered solution of 20mM Sodium Citrate, 0.2% Tween 80, pH 3.0.
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at 2-8°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.</p>
<b>RECONSTITUTION</b>	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b> 17.4 KDa                      <b>AP Mol Mass:</b> 17 KDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> &lt; 0.01 EU/μg as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>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.</p>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"><b>SDS-PAGE</b></div>  </div>	

### Purity-SEC-HPLC:



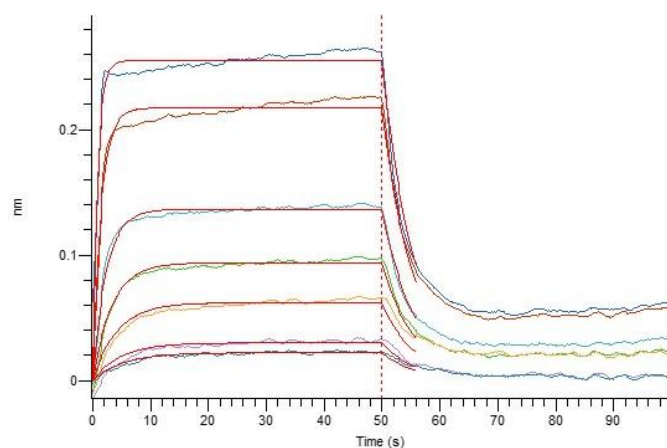
Greater than 95% as determined by SEC-HPLC.

### Bioactivity-Cell Based Assay:



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.

### Bioactivity-BLI:



Loaded Human IL-2RA-Fc on Protein A Biosensor, can bind Mouse IL-2 with an affinity constant of 0.17  $\mu$ M as determined in BLI assay.