Beijing Solarbio Science & Technology Co., Ltd
Tel: 400-968-6088
Fax: 010-56371281
Http://www.solarbio.com

Recombinant Mouse IL-2

Catalog#:P00198 Derived from *E.coli*

DESCRIPTION	Recombinant Mouse Interleukin-2 is produced by our *E.coli* expression system and the target gene encoding Ala21-Gln169 is expressed. **Accession#:** P04351 **Known as:** aldesleukin; interleukin 2; interleukin-2; IL-2; IL2; T-cell growth facter; T cell growth factor; TCGF
FORMULATION	Lyophilized from a 0.2μm filtered solution of 20mM Sodium Citrate, 0.2% Tween 80, pH 3.0.
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.
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.
QUALITY CONTROL	Bioactivity：Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Mouse IL-2 is ≥1×10^7 IU/mg. Mol Mass: 17.4kDa AP Mol Mass: 17kDa, reducing conditions. Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
BACKGROUND	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 tree 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 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, IL-2 may be a key cytokine in the natural suppression of autoimmunity.

SDS-PAGE