

Datasheet for ABIN7320817

IL-2 Protein**2** Images[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL-2 (IL2)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Mouse Interleukin-2/IL-2 Protein (Active)
Sequence:	Ala21-Gln169
Characteristics:	Recombinant Mouse Interleukin-2 is produced by our E.coli expression system and the target gene encoding Ala21-Gln169 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Human IL-2 is $\geq 1 \times 10^7$ IU/mg.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	Interleukin-2/IL-2 (IL2 Products)

Target Details

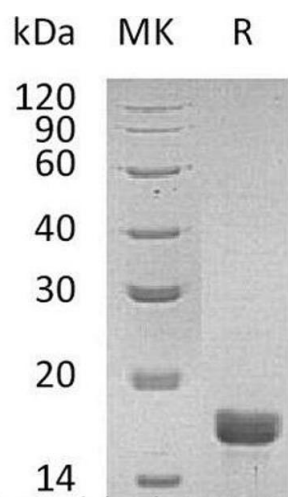
Background:	<p>Background: Interleukin 2 (IL 2), also termed T-cell growth factor, is a member of the cytokine family which includes IL-4, IL-7, IL-9, IL-15 and IL-21. Each member of this family has a four alpha helix bundle. IL-2 signals through the IL-2 receptor, a complex consisting of three subunits, termed alpha, beta and gamma. The IL-2 R gamma is shared by cytokine receptors of all members of cytokine family. Mature mouse 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.</p> <p>Synonym: IL2, Aldesleukin, Interleukin 2, Interleukin-2, IL-2, IL2, T-cell growth factor, T cell growth factor, TCGF</p>
Molecular Weight:	17.4 kDa
UniProt:	P04351
Pathways:	JAK-STAT Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only
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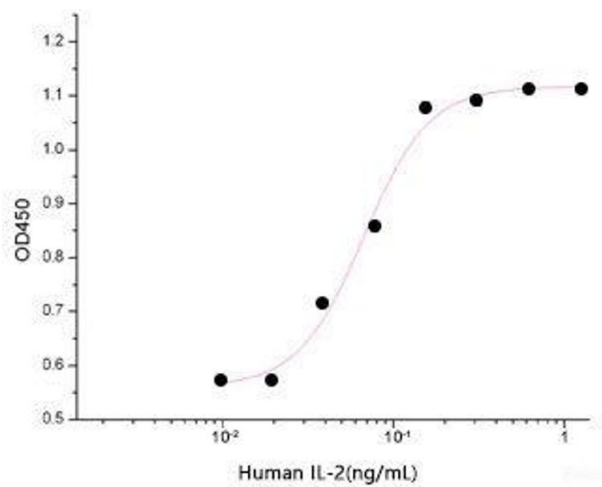
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20 mM Sodium Citrate, 0.2 % Tween 80, pH 3.0.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.



ELISA

Image 2.