

Datasheet for ABIN2667497

IL-2 Protein (AA 22-169)



Overview

Quantity:	20 μg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 22-169
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Western Blotting (WB), Immunofluorescence (IF)
Product Details	
Purity:	>98 % , as determined by Coomassie stained SDS-PAGE and HPLC analysis.
Endotoxin Level:	Less than 0.1 ng per μg of protein.
Target Details	
Target:	IL-2 (IL2)
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Alternative Name:	IL-2 (IL2 Products)

Target Details

	growth, differentiation, and survival of the antigen-specific cytotoxic T cells. Human IL-2 acts on murine and human T cells, and its receptors are shared by others cytokines. IL-2Ra is an IL-2-specific receptor, IL-2Rb is shared with IL-15 and the gc is a common receptor shared by many cytokines including IL-2, IL-4, IL-7, IL-9, IL-15, and IL-21.
Molecular Weight:	The 148 amino acid recombinant protein has a predicted molecular mass of 17.2 kDa. The predicted N-terminal amino acid is Phe.
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

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: ED50 is ≤ 0.2 ng/ml, corresponding to a specific activity of ≥ 5.0 x 106 units/mg as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. Do not vortex. It is recommended to further dilute in a buffer, such as 5 % Trehalose, and store working aliquots at -20 °C to -80 °C.
Buffer:	Lyophilized, carrier-free.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -20°C or -70°C.