antibodies - online.com







IL-2 Protein

Publications



()	1/0	r\ /1	014	
()	ve	I V I	-v	V

Overview		
Quantity:	1 mg	
Target:	IL-2 (IL2)	
Origin:	Mouse	
Source:	Escherichia coli (E. coli)	
Biological Activity:	Active	
Product Details		
Sequence:	APTSSSTSSS TAEAQQQQQ QQQQQQHLEQ LLMDLQELLS RMENYRNLKL PRMLTFKFYL PKQATELKDL QCLEDELGPL RHVLDLTQSK SFQLEDAENF ISNIRVTVVK LKGSDNTFEC QFDDESATVV DFLRRWIAFC QSIISTSP	
Characteristics:	The ED50 as determined by the dose dependent stimulation of murine CTLL-2 cells is < 0.2 ng/ml, corresponding to a specific activity of $> 5.0 \times 106$ units/mg.	
Purity:	> 95 % by SDS-PAGE and HPLC analyses.	
Endotoxin Level:	Level Less than 1EU/µg of rMuIL-2 as determined by LAL method	
Target Details		
Target:	IL-2 (IL2)	
Alternative Name:	Interleukin-2 (IL-2) (IL2 Products)	
Background:	Mature mouse IL-2 shares 56% and 73% aa sequence identity with human and rat IL-2, respectively. It shows strain-specific heterogeneity in an N-terminal region that contains a polyglutamine stretch. Mouse and human IL-2 exhibit cross-species activity. The receptor for IL-2	

consists of three subunits that are present on the cell surface in varying preformed complexes . The 55 kDa IL-2 Rais specific for IL-2 and binds with low affinity. The 75 kDa IL-2 Rbeta, which is also a component of the IL-15 receptor, binds IL-2 with intermediate affinity. The 64 kDa common gamma chainî³c/IL-2 Rî³, which is shared with the receptors for IL-4, -7, -9, -15, and -21, does not independently interact with IL-2. Upon ligand binding, signal transduction is performed by both IL-2 Rbetaandî³c. It drives resting T cells to proliferate and induces IL-2 and IL-2 Rasynthesis. It contributes to T cell homeostasis by promoting the Fas-induced death of naìve CD4+ T cells but not activated CD4+ memory lymphocytes . IL-2 plays a central role in the expansion and maintenance of regulatory T cells, although it inhibits the development of Th17 polarized cells. Synonym: Interleukin-2 (IL-2), Mouse. Formulation: Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.

Molecular Weight:

Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 149 amino acids.

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

Handling

Format:	Lyophilized	
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the	
	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a	
	concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots	
	and stored at	
Storage:	4 °C	

Publications

Product cited in:

Thuy, Thorsén: "Glycosylation profiling of therapeutic antibodies in serum samples using a microfluidic CD platform and MALDI-MS." in: **Journal of the American Society for Mass Spectrometry**, Vol. 24, Issue 7, pp. 1053-63, (2013) (PubMed).

Fritz, Radziwill: "CNK1 promotes invasion of cancer cells through NF-kappaB-dependent signaling." in: **Molecular cancer research : MCR**, Vol. 8, Issue 3, pp. 395-406, (2010) (PubMed).