Mouse Interleukin-2 (mIL-2)	C C	ell Signaling	
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MW (kDa): 19	UniProt ID: #P04351	Entrez-Gene Id: 16183
Background		IL-2 is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation (1,2). IL-2 also promotes peripheral development of Treg cells (3,4). Conversely, IL-2 is involved in activation induced cell death (AICD) that is observed post T cell expansion by increasing levels of Fas on CD4+ T cells (5). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2R α , IL-2R β , and the common gamma chain, γc (1,2). IL-2R α binds exclusively to IL-2 with low affinity and increases binding affinity of the whole receptor complex including IL-2R β and γc subunits. IL-2R β is also used by IL-15 (1,2). The common γc is used by other cytokines including IL-4, IL- 7, IL-9, IL-15, and IL-21 (1,2). Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5, and the PI3K/Akt pathways (1,2).
Endotoxin		Less than 0.01 ng endotoxin/1 µg mIL-2.
Purity		>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant mIL-2. All lots are greater than 98% pure.
Source / Purifica	ation	Recombinant mouse IL-2 (mIL-2) Ala21-Gln169 (Accession #NP_032392) was produced in <i>E. coli</i> at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant mIL-2 was determined in a CTLL-2 cell proliferation assay. The ED ₅₀ of each lot is between 0.5-2 ng/ml.
Background Ref	erences	1. Ma, A. et al. (2006) <i>Annu Rev Immunol</i> 24, 657-79. 2. Gaffen, S.L. and Liu, K.D. (2004) <i>Cytokine</i> 28, 109-23. 3. Fehérvari, Z. et al. (2006) <i>Trends Immunol</i> 27, 109-11. 4. Antony, P.A. et al. (2006) <i>J Immunol</i> 176, 5255-66. 5. Jaleco, S. et al. (2003) <i>J Immunol</i> 171, 61-8.
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