Recombinant murine Interleukin-2 (rm IL-2)

Catalog No: #72102

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Description

Product Name	Recombinant murine Interleukin-2 (rm IL-2)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Ms
Target Name	rm IL-2
Other Names	T-cell growth factor, TCGF, Aldesleukin
Accession No.	accession:P04351 GeneID:16183
Uniprot	P04351
GeneID	16183;
Calculated MW	Approximately 17.2 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	APTSSSTSSS TAEAQQQQQQ QQQQQQHLEQ LLMDLQELLS RMENYRNLKL PRMLTFKFYL PKQATELKDL QCLEDELGPL RHVLDLTQSK SFQLEDAENF ISNIRVTVVK LKGSDNTFEC QFDDESATVV DFLRRWIAFC QSIISTSPQ
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, γδ T cells, B cells, dendritic cells, and eosinophils. IL-2 IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL2 consists of three subunits (55 kDa IL2Rα, 75 kDa IL2Rβ, 64 kDa common gamma chain γc IL2Rγ) that are present on the cell surface in varying preformed complexes; Mature mouse IL2 shares 56 % and 73 % amino acid sequence identity with human and rat IL2 respectively. Mouse and human IL2 exhibit cross-species activity. Mouse IL2 has a specific N-terminal region that contains a poly glutamine (contain 12 glutamines) stretch.

References

1. Ma, A., R. Koka, and P. Burkett. 2006. Annu Rev Immunol, 24: 657-79.
2. Taniguchi, T., H. Matsui, T. Fujita, et al. 1983. Nature, 302: 305-10.
3. Liparoto, S.F., D.G. Myszka, Z. Wu, et al. 2002. Biochemistry, 41: 2543-51.
4. Bodnar, A., E. Nizsaloczki, G. Mocsar, et al. 2008. Immunol Lett, 116: 117-25.
5. Mosmann, T.R., T. Yokota, R. Kastelein, et al. 1987. J Immunol, 138: 1813-6.
6. Matesanz, F., A. Alcina, and A. Pellicer. 1993. Immunogenetics, 38: 300-3.

Note: This product is for in vitro research use only