Recombinant Mouse Interleukin–1ß (IL–1ß)

Catalog Number PMC0814 (5 µg), PMC0815 (10 µg), PMC0816 (25 µg), PMC0811 (100 µg)

Pub. No. MAN0004301 **Rev.** A.0

Product specifications

Lot number	See product label.
Molecular weight	17 kDa
Purity	>95% as determined by SDS PAGE analysis.
Amino acid sequence	VPIRQLHYRL RDEQQKSLVL SDPYELKALH LNGQNINQQV IFSMSFVQGE PSNDKIPVAL GLKGKNLYLS CVMKDGTPTL QLESVDPKQY PKKKMEKRFV FNKIEVKSKV EFESAEFPNW YISTSQAEHK PVFLGNNSGQ DIIDFTMESV SS
Biological activity	ED_{50} <10.0 pg/mL, determined by measuring the dose dependent stimulation of murine D10S cells. Mouse IL-1ß is active at 0.1–10 ng/mL for most *in vitro* applications. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Lyophilized, carrier free.
Sterility	Filtered before lyophilization through a 0.22 micron sterile filter.
Endotoxin	<0.1 ng/µg
Production	Produced in *E. coli* and purified via sequential chromatography.
Reconstitution recommendation	Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. Apportion the reconstituted protein into working aliquots and store at ≤ –20°C. Make any further dilutions of the reconstituted protein in low endotoxin medium or buffered solution containing a carrier protein such as heat inactivated FCS or tissue culture grade BSA.
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Store the lyophilized protein at 2–8°C or –20°C for long term storage, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤ –20°C. Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.
References	Gray, PW, Glaister, D, Chen, E, Goeddel, D, and Pennica, D. (1986) Two interleukin 1 genes in the mouse: cloning and expression of the cDNA for murine interleukin 1 beta J. Immunol. 137:3644-3648. Orencole, SF, and Dinarello, CA. (1989) Characterization of a subclone (D10S) of the D10.G4.1 helper T-cell line which proliferates to attomolar concentrations of interleukin-1 in the absence of mitogens. Cytokine 1:14-22. McTiernan, CF, Lemster, BH, Frye, C, Brooks, S, Combes, A, and Feldman, AM. (1997) Interleukin-1 beta inhibits phospholamban gene expression in cultured cardiomyocytes. Circulation Research 81:493-503.

Limited product warranty

Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Life Technologies Corporation | 5781 Van Allen Way | Carlsbad, CA 92008
For descriptions of symbols on product labels or product documents, go to **thermofisher.com/symbols-definition**.

The information in this guide is subject to change without notice.