

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

Publication Number MAN0004301 Rev. 1.00

Catalog Number:	PMC0814	PMC0815	PMC0816	PMC0811	
Quantity:	5 μg	10 μg	25 μg	100 µg	
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 range: 0.006 – 0.01 ng/mL (Specific Activity: 1.7×10^8 – 1.0×10^8 units/mg), determined by measuring the dose–dependent stimulation of murine D10S cells. Mouse IL-1 β is active at 0.1–10 ng/mL for most <i>in vitro</i> applications. The optimal concentration for each specific application should be determined by an initial dose response assay.				
Formulation:	Lyophilized, carrier free.				
Sterility:	Filtered through a 0.22 micron sterile filter.				
Endotoxin:	<0.1 ng/μg				
Production:	Recombinant mouse IL–1β is produced in <i>E. coli</i> and purified via sequential chromatography.				
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized recombinant mouse IL -1β in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. Further dilutions should be made 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 lyophilized recombinant mouse IL -1β at 2°C to 8°C, 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 stores as instructed.				
References:	Gray, P.W., D. Glaister, E. Chen, D. Goeddel, and D. Pennica (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, S.F. and C.A. Dinarello (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, C.F., B.H. Lemster, C. Frye, S. Brooks, A. Combes, and A.M. Feldman (1997) Interleukin–1 inhibits phospholamban gene expression in cultured cardiomyocytes. Circulation Research 81:493–503.				

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	
REF	Catalog Number	
RUO	Research Use Only	
Ω	Use by	
***	Manufacturer	
[-]	Without, does not contain	
from Light	Protect from light	
<u> </u>	Directs the user to consult instructions for use (IFU) accompanying the product.	

Symbol	Description		
LOT	Batch code		
IVD	In vitro diagnostic medical device		
1	Temperature limitation		
EC REP	European Community authorized representative		
[+]	[+] With, contains		
À	Consult accompanying documents		

Limited Use Label License: Research Use Only

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For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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Revision Date 17 May 2011

