

Recombinant Rhesus Macaque Interleukin-1 beta

(Rhesus Macaque IL-1β)

Product Information

Product Name	Cat#	Size
Recombinant Rhesus Macaque Interleukin-1 beta (Rhesus Macaque IL-1β)	90132ES10	10 μg
	90132ES60	100 μg
	90132ES76	500 μg

Product Description

Interleukin-1 beta (IL-1 β) is a pro inflammatory cytokine, which is secreted by immune cells to trigger inflammation and this has been found profoundly in the lesions caused by Leishmania pathogens. IL-1 is a name that designates two pleiotropic cytokines, IL-1 alpha (IL-1F1) and IL-1 beta (IL-1F2), which are the products of distinct genes. IL-1 alpha and IL-1 beta are structurally related polypeptides that share approximately 21% amino acid (aa) identity in human. Both IL-1 α and IL-1 β binds to the same receptor and has similar but not identical biological properties; The 17 kDa mature rhesus IL-1 beta shares 96% as sequence identity with human and 67% - 78% with canine, cotton rat, equine, feline, mouse, porcine, and rat IL-1 beta, are known to modulate effects of neurotoxic neurotransmitters discharged during excitation or inflammation in the central nervous system (CNS).

Product Properties

Synonyms	Catabolin, Leukocyte Endogenous Mediator, LEM, Lymphocyte-activating factor , LAF, Mononuclear	
	Cell Factor, MCF , Endogenous Pyrogen, EP	
Accession	P48090	
GeneID	704701	
Source	E.coli-derived Rhesus Macaque IL-1 β , Ala117-Ser269.	
Molecular Weight	Approximately 17.3 kDa.	
AA Sequence	APVRSLHCTL RDAQLKSLVM SGPYELKALH LQGQDLEQQV VFSMSFVQGE ESNDKIPVAL	
	GLKAKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW	
	YISTSQAENM PVFLGGTRGG QDITDFTMQF VSS	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	> 98% by SDS-PAGE and HPLC analyses.	
Biological Activity	The ED50 as determined by a cell proliferation assay using murine D10.G4.1 cells is less than 10 pg/mL,	
	corresponding to a specific activity of $> 1.0 \times 10^8$ IU/mg. Fully biologically active when compared to	
	standard.	
Endotoxin	$< 1.0 \mathrm{EU}$ per 1 $\mu \mathrm{g}$ of the protein by the LAL method.	
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
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 \leq -20°C. Further	
	dilutions should be made in appropriate buffered solutions.	

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

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Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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