

Recombinant Rat IL1B

Cat No:HR2R2279

For research use only

Overview

Quantity	100 ?g	
Gene Symbol	IL1B	
Gene ID	24494	
Accession	Q63264	
Alternative Name	IL-1b br/>Recombinant Rat Interleukin-1 Beta (IL1B)	
Species	Rat	
Source	Monocytes are the main source of secreted IL-1. They express predominantly IL-1-beta while human keratinocytes express large amounts of IL-1-alpha. Murine macrophages display a transition from IL-1-beta to IL-1-alpha production during maturation of monocytes into inflammatory macrophages. There are two functionally almost equivalent forms of IL-1, IL-1-alpha and IL-1-beta that are encoded by two different genes. IL-1-beta is the predominant form in humans while it is IL-1-alpha in mice. Both forms of IL-1 bind to the same receptor and therefore also show similar if not identical biological activities. The IL-1-beta but not the IL-1-alpha precursor must be processed before it can bind to the receptor. Both forms of IL-1 bind to the same receptor and therefore also show similar if not identical biological activities. The receptor isolated from T cells is expressed predominantly on T cells and cells of mesenchymal origin. It binds both types of IL-1 with equal affinity. This type is called also Type 1 receptor. It has been designated CD121a. The Type 2 receptor has been designated CD121b. It is isolated from B cells, granulocytes, and macrophages. It is expressed predominantly on B cells and cells of the myelomonocytic lineage and is encoded by a separate gene.	
Functions	The ED(50) was determined by the dose-dependent stimulation of thymidine up pg/mL, corresponding to a specific activity of ? 5.0 x 10^8 units/mg.	otake by murine D10S cells is ? 2.0
Formulation	Rat IL-1 beta was lyophilized from a 0.2 ?m filtered solution in PBS, pH 7.	
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentr solution can then be diluted into other buffers.	ration not less than 0.1 mg/mL. This
Appearance	Lyophilized Powder	
Molecular Weight	17	
Purity	>95% as determined by SDS-PAGE	
Concentration		
Shipping Condition	Ambient Temperature www.bioelsa.com	

Storage Condition Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favourable performance, avoid repeated handling and multiple freeze/thaw cycles.

