

## 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  Recombinant Rat Interleukin-1 Beta (IL1B)
Species	Rat
Source	E. coli
Description	<p>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.</p>
Functions	The ED(50) was determined by the dose-dependent stimulation of thymidine uptake by murine D10S cells is ? 2.0 pg/mL, corresponding to a specific activity of ? 5.0 x 10^8 units/mg.
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 concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	17
Purity	>95% as determined by SDS-PAGE
Concentration	
Shipping Condition	Ambient Temperature

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.

