

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	E. coli
Description	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 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	Ambient Temperature
Condition	www.bioelsa.com info@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.
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