

Recombinant Human IL1A

Cat No:HR2R1563

For research use only

Overview

Quantity	20 ?g	
Gene Symbol	IL1A	
Gene ID	3552	
Accession	P01583	
Alternative Name	IL-1 alpha, Lymphocyte-activating factor, LAF, Mononuclear Cell Factor, MCF, Hematopoietin-1, IL1F1 	
Species	Human	
Source	Monocytes are the main source of secreted IL-1. They express predominantly IL-1-beta while human kerating 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 almos equivalent forms of IL-1, IL-1-alpha and IL-1-beta, that are encoded by two different genes. IL1-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 be processed before it can bind to the receptor. Both forms of IL-1 bind to the same receptor and therefore all show similar if not identical biological activities. The receptor isolated from T cells is expressed predominantly cells and cells of mesenchymal origin. It binds both types of IL-1 with equal affinity. This type is called also Ty 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 myelomonous lineage and is encoded by a separate gene.	r must lso y on T ype 1
Functions	The ED(50) was determined by the dose-dependent stimulation of murine D10S cells is ? 0.002 ng/mL, corresponding to a specific activity of ? 2.0 x 10^9 units/mg.	
Formulation	Interleukin-1 alpha was lyophilized from a 0.2 ?m filtered PBS solution pH 7.0.	
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL solution can then be diluted into other buffers.	. This
Appearance	Lyophilized Powder	
Molecular Weight	18	
Purity	>95% as determined by SDS-PAGE	
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.	
Shipping	Ambient Temperature	

Storage Condition The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

