

Catalog Number: HZ-1164

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

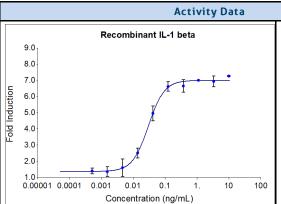
Endotoxin Free

Product Description

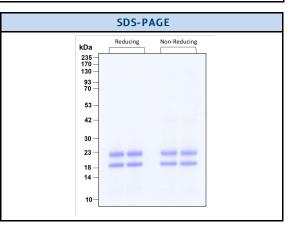
Animal-free Recombinant Human IL-1 beta expressed in human 293 cells has a very high activity with a typical EC50 of ≤0.1 ng/mL using a bioassay to measure stimulation of the proliferation of mouse D10S cells. In comparison with the E. coli expressed protein, IL-1 beta is 50% more potent promoting human CD4+ T cell differentiation into Th17 cells. This cytokine is important for inflammatory responses. It is also involved in a variety of cellular activities which includes cell differentiation, proliferation, and apoptosis. It is produced in a serum-free, chemically defined media.

Alternative Names	Catabolin, IL 1, IL 1 beta, IL1 BETA, IL-1 beta, IL1B, IL-1b, IL1beta, IL1F2, Interleukin 1 beta, interleukin 1, beta	
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-1 beta protein	
Species Reactivity	human,mouse,rat	

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of mouse D10S cells	Typically ≤ 0.05 ng/mL EC50			
Molecular Mass	SDS-PAGE	20 and 23 kDa reduced and non-reduced, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



ecombinant human IL-1 beta (HZ-1164) stimulates doesdependent proliferation of the D10.G4.1 mouse helper t lymphocyte cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. D10.G4.1 cells were treated with increasing concentrations of recombinant IL-1 beta for 72 hours. The EC50 was determined using a 4-parameter non-linear



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Data Sheet Version #: 1

Proteintech Group, Inc.

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Preparation				
Shipping Temperature				
Formulation	nulation 1x PBS, See Certificate of Analysis for details			
Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 contents endotoxin-free recombinant human serum albumin (HSA).				

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	Lyophilized	Room Temperature	2 weeks
_	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
		Avoid repeated freeze-thaw cycles.	

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