

Catalog Number: HZ-1164

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

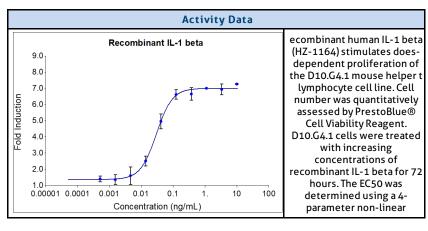
Endotoxin Free

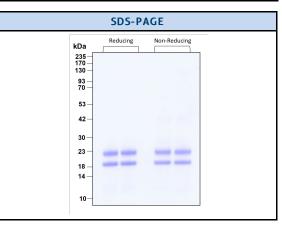
Product Description

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	

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, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			





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5500 Pearl Street, Suite 400 Rosemont, IL 60612 t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com

Preparation				
Shipping Temperature				
Formulation	on 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 contains the protein in st				

	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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