

Product Data Sheet

Animal-Free IL-1 beta Protein, Pig (His)

Cat. No.:	HY-P700243AF
Synonyms:	Interleukin-1 beta; IL-1β; IL1F2; IL-1 beta; IL1B
Species:	Pig
Source:	E. coli
Accession:	P26889 (A115-P267)
Gene ID:	397122
Molecular Weight:	Approximately 18.51 kDa

DDODEDTIEC				
PROPERTIES				
AA Sequence				
			LAGPHMLKAL	HLLTGDLKRE
	VVFCMSFVQG DD	SNNKIPVT	LGIKGKNLYL	S C V M K D N T P T
	LQLEDIDPKR YP	KRDMEKRF	VFYKTEIKNR	VEFESALYPN
	WYISTSQAEQ KP	VFLGNSKG	RQDITDFTME	VLSP
Dielegieel Activity	Measure by its ability to induce D	10 C4 1 calls prolifers	tion The FD for this effect	in <2 mg/ml
Biological Activity	Measure by its ability to induce b	10.04.1 Cells prolifera	ICION. THE ED50101 THIS EFfect	IS ~5 Hg/IIIL.
Appearance	Lyophilized powder			
Appearance				
Formulation	Lyophilized from a solution conta	aining 1X PBS nH 7 4		
		g 2011 20, p11111		
Endotoxin Level	<0.1 EU per 1 µg of the protein by	the LAL method.		
Reconsititution	It is not recommended to reconst	itute to a concentrati	on less than 100 µg/mL in d	dH2O.
				Δ
Storage & Stability	Stored at -20°C for 2 years. After r	econstitution. it is sta	able at 4°C for 1 week or -20°	C for longer (with carrier r
	recommended to freeze aliquots			
Shipping	Room temperature in continenta	IUS: may yary elsewh	iere.	
eb	temperature in continenta	too, may vary elsewin		

DESCRIPTION

Background

IL-1 beta Protein is a potent pro-inflammatory cytokine that was initially discovered as a major endogenous pyrogen. It triggers various immune responses, including the synthesis of prostaglandins, recruitment and activation of neutrophils, activation and production of cytokines by T-cells, activation of B-cells leading to antibody production, and stimulation of fibroblast proliferation and collagen production. Additionally, it plays a role in promoting Th17 differentiation of T-cells and synergizes with IL12 to induce IFNG synthesis by Th1 cells. IL-1 beta Protein also contributes to angiogenesis by synergistically inducing VEGF production along with TNF and IL6. Moreover, it is involved in the transduction of inflammation downstream of pyroptosis, where its mature form is specifically released into the extracellular space through

is

the gasdermin-D (GSDMD) pore. IL-1 beta Protein also interacts with African swine fever virus (ASFV) protein L83L during microbial infections.

Caution: Product has not been fully validated for medical applications. For research use only.

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