Elabscience®

Recombinant Human IL-1A/IL-1α Protein

Catalog Number: PKSH033458

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Species	Human		
Source	E.coli-derived Human IL-1A/IL-1a protein Ser113-Ala271, with an C-terminal His		
Calculated MW	19 kDa		
Observed MW	17 kDa		
Accession	P01583		
Bio-activity	Measure by its ability to induce D10.G4.1 cells proliferation. The ED_{50} for this effect is <10 pg/mL. The specific activity of recombinant human IL-1 alpha is approximately		
	$>1x10^{8}$ IU/ mg.		
Properties			
Purity	> 98 % as determined by reducing SDS-PAGE.		
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.		
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80		
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 °C for 3 months.		
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation	Lyophilized from sterile PBS,pH 8.0.		
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants		
	before lyophilization.		
	Please refer to the specific buffer information in the printed manual.		
Reconstitution	Please refer to the printed manual for detailed information.		

Data

kDa	МК	R
120 90		
60		
40		
30	-	
20	-	
14	Versional	-

> 98 % as determined by reducing SDS-PAGE.

Background

Interleukin-1 alpha (IL1 α) is a cytokine member of the interleukin-1 family. IL-1 consists of two distinct forms: IL1 α and IL1 β that recognize the same cell surface receptors but are distinct proteins with approximately 25% amino acid sequence identity. IL1 α is constitutively produced by epithelial cells and plays an essential role in maintenance of skin barrier function. Upon stimulation, a wide variety of cells including osteoblasts, monocytes, macrophages can be induced to express IL1 α . IL1 α possesses a wide range of metabolic, physiological, haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

For Research Use Only

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