

IL-1 beta Protein, Cynomolgus (C-His)

Cat. No.:	HY-P700888
Synonyms:	Interleukin-1 beta; IL-1 beta; IL1F2; IL1B; IL-1BETA; IL1F2; IL-1β; IL-1 beta; IL-1B ; Interleukin-1 β; IL-1 β; IL-1β; IL-1 β
Species:	Cynomolgus
Source:	E. coli
Accession:	A0A2K5VDC7 (A117-S268)
Gene ID:	/
Molecular Weight:	18.33 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, 100mM L-Arginine, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-1 beta Protein is a potent pro-inflammatory cytokine initially discovered as a major endogenous pyrogen. It induces prostaglandin synthesis, neutrophil activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. IL-1 beta Protein also promotes Th17 differentiation of T-cells and synergizes with IL12 to induce IFNG synthesis from Th1 cells. Additionally, it plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6. IL-1 beta Protein is involved in the transduction of inflammation downstream of pyroptosis, where its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore. It exists as a monomer and interacts with MEFV.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA