IL-1β/IL1F2, Human, Recombinant

Cat. No. : PCK047

General Information

Synonyms	Catabolin;Lymphocyte-Activating Factor (LAF);Endogenous Pyrogen (EP);Leukocyte Endoge_x0002_nous Mediator (LEM);Mononuclear Cell Factor (MCF)
Species	Human
Expression host	E.coli
Sequence	MASAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFSMSFVQGEESNDKIPVA LGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINNKLEFESAQFPNWYIST SQAENMPVFLGGTKGGQDITDFTMQFVSS with polyhistidine tag at the C-terminus.
Accession	P01584.2
Tag	His-tag at the C-terminus
Mol mass	18.48 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce proliferation in D10.G4.1 cells. The ED50 for this effect is < 10 pg/mL. The specific activity of recombinant human IL-1 beta is approximately > 1.5 × 10^8 IU/mg.Measure by its ability to induce IL-8 secretion in HT29 cells. The ED50 for this effect is 1.8-5.1 ng/mL.

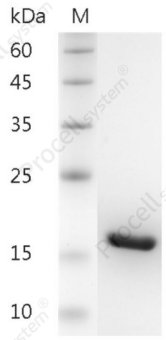
Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 1 beta (IL-1β) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a cytokine protein that in humans is encoded by the IL1B gene. There are two genes for interleukin-1 (IL-1): IL-1 alpha and IL-1 beta (this gene). IL-1β precursor is cleaved by cytosolic caspase 1 (interleukin 1 beta convertase) to form mature IL-1β.

SDS-PAGE



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