

IL-1 β /IL1F2, Mouse, Recombinant

Cat. No. : PCK048

General Information

Synonyms	Catabolin;Lymphocyte-Activating Factor (LAF);Endogenous Pyrogen (EP);Leukocyte Endoge_x0002_nous Mediator (LEM);Mononuclear Cell Factor (MCF)
Species	Mouse
Expression host	E.coli
Sequence	MVPIRQLHYRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPNSNDKIPVALGLK GKNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKRFVFNKIEVKSKVEFESAEPFNWYISTSQ AEHKPVFLGNNSGQDIIDFTMESVSS with polyhistidine tag at the C-terminus.
Accession	P10749.1
Tag	His-tag at the C-terminus
Mol mass	18.3 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce D10.G4.1 cells proliferation. The ED50 for this effect is < 8 pg/mL. The specific activity of recombinant mouse IL-1 beta is approximately > 1.2 $\times$ 10 ⁸ IU/mg.

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 μ m filtered solution containing 1 $\times$ PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μ g/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 1 beta (IL-1 β) 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-1 β precursor is cleaved by cytosolic caspase 1 (interleukin 1 beta convertase) to form mature IL-1 β .

SDS-PAGE

