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Human recombinant IL-1 beta protein, GMP

Catalog Number: PROTP01584-6

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Overview

Product Name	Human recombinant IL-1 beta protein, GMP
Description	Interleukin-1 beta (IL-1beta) is a major cytokine expressed in macrophage, NK cells, monocytes, and neutrophils. It also plays fundamental role in inflammatory response, including monocyte activation, which is essential for the host defense and pathogen and pathogen resistance. Pro-IL-1beta is cleaved by cytosolic caspase 1 to form mature IL-1beta.
Size	100ug,1mg
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	Lyophilized from a 0.2 um filtered solution of PBS, pH 8.0.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 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 -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 18.5 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce IL-8 secretion in HT29 cells. The ED_{50} for this effect is <2.0 ng/mL. The specific activity of recombinant human IL-1 beta is approximately >3 x 10^7 IU/mg, which is calibrated against the human IL-1 beta WHO International Standard (NIBSC code: 86/680).

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Endotoxin

<0.05 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MASAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFSMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKK MEKRFVFNKIEINNKLEFESAQFPNWYISTSQAENMPVFLGGTKGGQDITDFTMQFVSS with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved.

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