

**IL-1 beta (Interleukin-1 beta), Human**

v. 231001

<b>Catalog number</b>	C01002-5UG / C01002-20UG / C01002-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	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.
<b>Source</b>	Escherichia coli
<b>Sequence</b>	MASAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFMSFVQ GEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFN KIEINNKLEFESAQFPNWWYISTSQAENMPVFLGGTKGGQDITDFTMQFVSS with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce IL-8 secretion in HT29 cells. The ED <sub>50</sub> for this effect is <2.0 ng/mL. The specific activity of recombinant human IL-1 beta is approximately >3 x 10 <sup>7</sup> IU/mg.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Stability &amp; Storage</b>	This product is stable after storage at: <ul style="list-style-type: none"> <li>• -20°C for 12 months in lyophilized state from date of receipt.</li> <li>• -20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> Avoid repeated freeze/thaw cycles.



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SDS-PAGE analysis of recombinant human IL-1 beta

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*For research use only.*