

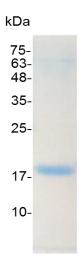
PRODUCT INFORMATION

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

v. 231001

Catalog number	C01002-5UG / C01002-20UG / C01002-100UG
Package	5 μg / 20 μg / 100 μg
Description	Interleukin 1 beta (IL-1 $\beta$ ) 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 $\beta$ precursor is cleaved by cytosolic caspase 1 (interleukin 1 beta convertase) to form mature IL-1 $\beta$ .
Source	Escherichia coli
Sequence	MASAPVRSLNCTLRDSQQKSLVMSGPYELKALHLQGQDMEQQVVFSMSFVQ GEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFN KIEINNKLEFESAQFPNWYISTSQAENMPVFLGGTKGGQDITDFTMQFVSS with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
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.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile $H_2O$ to a concentration not less than 200 $\mu g/mL$ and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at:  -20°C for 12 months in lyophilized state from date of receipt.  -20°C or -80°C for 1 month under sterile conditions after reconstitution.  Avoid repeated freeze/thaw cycles.





SDS-PAGE analysis of recombinant human IL-1 beta

For research use only.