

IL-1 beta (Interleukin-1 beta), Mouse

v. 231101

Catalog number	C02002-5UG / C02002-20UG / C02002-100UG
Package	5 µg / 20 µg / 100 µg
Description	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.
Source	<i>Escherichia coli</i>
Sequence	MVPIRQLHYRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPNSN DKIPVALGLKGNLYLSCVMKDGTPTLQLESVDPKQYPKKKMEKRFVFNKIEVK SKVEFESAEFPNWYISTSQAEHKPVFLGNNSGQDIIDFTMESVSS 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 D10.G4.1 cells proliferation. The ED ₅₀ for this effect is <8 pg/mL. The specific activity of recombinant mouse IL-1 beta is approximately >1.2x 10 ⁸ IU/mg.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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.
Stability & Storage	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -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. <p>Avoid repeated freeze/thaw cycles.</p>

kDa

75-

63-

48-

35-

25-

17-

11-



SDS-PAGE analysis of recombinant mouse IL-1 beta

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