

Recombinant Mouse IL-1 beta

Catalog No: C042

Description	Recombinant Mouse Interleukin-1 beta is produced by our E.coli expression system and the target gene encoding Val118-Ser269 is expressed.
Source	E. coli
Alternative name	Interleukin-1 Beta; IL-1 Beta; Il1b
Accession No.	P10749
Formulation	Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 50mM NaCl, pH 8.0.
Quality Control	<p>Bioactivity* Measured by the dose-dependent stimulation of mouse D10S cells. ED50 is less than 0.01 ng/ml. Specific Activity of 1.0×10^8 IU/mg.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).</p>
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.
Amino Acid Sequence	VPIRQLHYRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPSNDKIPVALGLKGKNLY LSCVMKDGTPTLQLES VDPKQYPKKKMEKRFVFNKIEVKSKVEFESAEPNWWYISTSQAEHKPVFLGNNSGQDIIDFTMESVS S
Background	Interleukin-1 (IL-1) designates two proteins, IL-1 α and IL-1 β , which are the products of distinct genes, but recognize the same cell surface receptors. IL-1 α and IL-1 β are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins. The proteins are synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17.5 kDa. The specific protease responsible for the processing of IL-1 β , designated interleukin 1 β -converting enzyme (ICE), has been described. Mature human and mouse IL-1 β share approximately 75% amino acid sequence identity and human IL-1 β has been found to be active on murine cell lines.

SDS-PAGE

