

Recombinant Canine IL-1 beta

Cat. No. IL1b-25C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Canine IL-1 beta was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Description	The IL-1 family of cytokines encompasses eleven proteins that each share a similar β -barrel structure and bind to Ig-like receptors. Several of the well characterized members of the IL-1-like cytokines play key roles in the development and regulation of inflammation. IL-1 α (IL-1F1), IL-1 β (IL-1F2), and IL-18 (IL-1F4) are well-known inflammatory cytokines active in the initiation of the inflammatory reaction and in driving Th1 and Th17 inflammatory responses. In contrast, IL-1 receptor antagonist (IL-1ra; IL-1F3) and IL-36 receptor antagonist (IL-36ra; IL-1F5) reduce inflammation by blocking the binding of the agonist receptor ligands. IL-33 (IL-1F11) is thought to function as an "alarmin" released following cell necrosis to alerting the immune system to tissue damage or stress. The biological properties of IL-37 (IL-1F7) are mainly those of down-regulating inflammation.
Source	Yeast
Species	Canine
Form	Lyophilized
Molecular Mass	17.5 kDa
AA Sequence	AAMQSVDCKLQDISHKYLVLNSYE LRALHLNGENVNKQVVFHMSFVHGD

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ESNNKIPVVLGIKQKNLYLSCVMKD GKPTLQLEKVDPKVYPKRKMEKRFV
FNKIEIKNTVEFESSQYPNWYISTS QVEGMPVFLGNTRGGQDITDFTMEF SS

Applications

The Canine IL-1 beta protein can be used in cell culture, as an IL-1 beta ELISA Standard, and as a Western Blot Control.

Storage

-20 C

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