

Active Recombinant Canine IL1B Protein (Ala115-Ser266)

Cat. No. IL1B-920C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine IL1B Protein (Q28292) (Ala115-Ser266) was produced by E. coli expression system. This protein was expressed, with an initial Met at the N-terminus.
Species	Canine
Source	E.coli
ProteinLength	Ala115-Ser266
Description	Interleukin-1 beta (IL1 beta or IL1B) also known as catabolin, is a member of the interleukin 1 cytokine family. IL1 is a pleiotropic cytokine. It is involved in the inflammatory response, cell growth, and tissue repair in the cortex. The IL1 superfamily consists of three members, IL1A (IL1 alpha), IL1B (IL1 beta), and IL1 receptor antagonist (IL1Ra). In clinical, it has been reported that Interleukin (IL)-1 may influence Th1 / Th2 immune responsiveness and has been implicated in the establishment of successful pregnancy. Proinflammatory interleukin (IL)-1 gene polymorphisms associated with high levels of IL-1beta activity increase the risk for hypochlorhydria and distal gastric carcinoma. IL1B polymorphisms may be involved in susceptibility to SSc. Moreover, the IL2-384-G allele may be a marker for the limited phenotype of systemic sclerosis (SSc).
Predicted N Terminal	Met
Form	Lyophilized from sterile 20mM PB, 0.3M NaCl, pH 6.5. Normally 5 % - 8 % trehalose,

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	mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its ability to bind human IL1R1 in a functional ELISA. 2. Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 for this effect is typically 2-12 pg/mL. 3. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The EC50 for this effect is 0.2-1ng/mL.
Molecular Mass	The recombinant canine IL1B consists of 153 amino acids and has a calculated molecular mass of 17.6 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.
Purity	> 96 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.