


CA1060	HumanKine™ IL-1 beta			
	Prod. No. S2318-10UG	lot #: PR1XXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

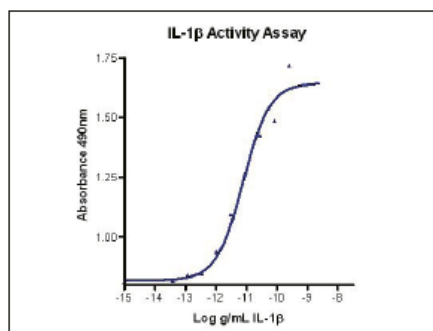
Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	18-25 kDa homodimer, glycosylated
Activity	Typically 0.02 to 0.08 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

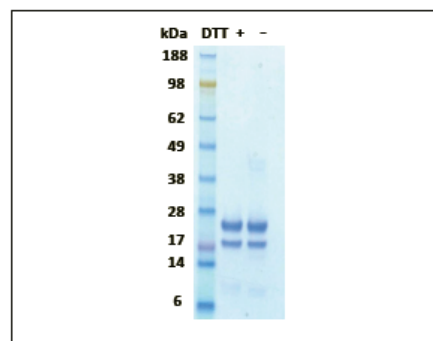
Recombinant human IL-1 beta expressed in engineered human cells. IL-1 beta is a 18 to 25 kDa glycosylated monomer and belongs to the IL-1 superfamily. IL-1 beta is a proinflammatory cytokine produced by monocytes and other cell types such as activated macrophages, neutrophils T, B, and NK cells. IL-1 beta stimulates T-helper cells and promotes proliferation of B cells and immunoglobulin synthesis. IL-1 beta has inhibitory properties on endothelial cells.

Note: Representative data are shown below (not Lot-specific).

A. Activity Assay



B. SDS-PAGE



Formulation:

Lyophilized in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by the dose-dependent stimulation of proliferation of mouse D10S cells.

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

Allan, S. M., et al, (2005) Nat. Rev. Immunol. 5, 629-640
Savage, N., et al, (1989) Cytokine 1, 23-35

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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