

**Recombinant Human
IL-1 beta (Interleukin 1 beta)**

Catalog # (Size): HZ-1164 (10µg) HZ-1165 (100µg) HZ-1166 (1000µg)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Authentic Glycosylation
- Lyophilized and Carrier Free (CF)



All HumaXpress® HumanKine™ are animal-component-free and Xeno-free™

Xeno-free IL-1 beta^{HuXp} expressed in human 293 cells has a very high activity with a typical EC₅₀ of ≤0.1 ng/mL using a bioassay to measure stimulation of the proliferation of mouse D10S cells. In comparison with the E. coli expressed protein, IL-1 beta is 50% more potent promoting human CD4+ T cell differentiation into Th17 cells. This cytokine is important for inflammatory responses. It is also involved in a variety of cellular activities which includes cell differentiation, proliferation, and apoptosis. It is produced in a serum-free, chemically defined media.

Typical Specifications

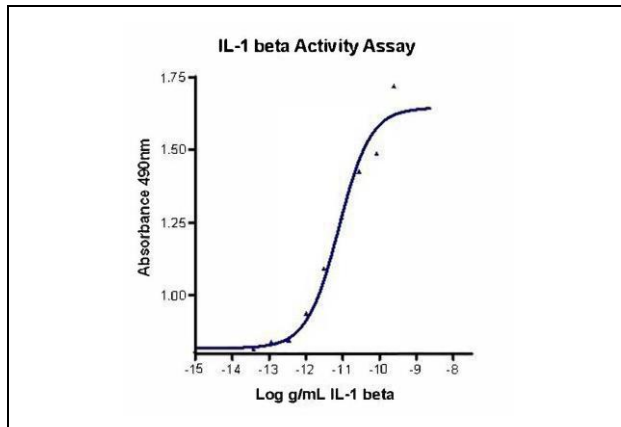
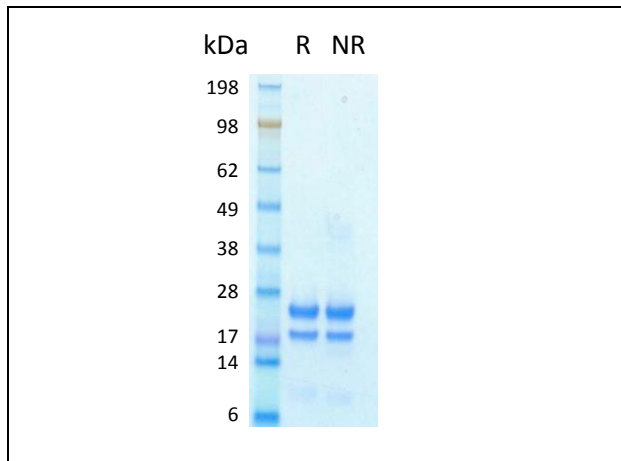
Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 0.1 ng/mL EC ₅₀
Purity	>95%
Endotoxin	<1 EU/µg
Molecular Mass	18 and 25 kDa, monomer, glycosylated
Formulation	1x PBS

Purity Confirmation

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

Activity Assay

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



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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