

Product Information

HumanKine™ Interleukin-1β, Human

Recombinant, expressed in HEK 293 cells

H6291

Storage Temperature: -20 °C Synonyms: IL-1beta, IL-1β

Product Description

HumanKineTM recombinant human IL-1 β , expressed in human 293 cells, is a glycosylated monomer with a molecular mass of 18–25 kDa. Production in human 293 cells offers authentic glycosylation. Glycosylation contributes to stability in cell growth media and other applications.

IL-1 β is a proinflammatory cytokine produced by monocytes, activated macrophages, T cells, neutrophils, B cells, and NK cells. It stimulates T helper cells, promotes immunoglobulin synthesis and B cell proliferation, and has inhibitory properties on endothelial cells.

The two closely related agents, interleukin-1a (IL-1a) and interleukin-1 β (IL-1 β) share a 62% homology in their amino acid sequences and elicit nearly identical biological responses.

This product is lyophilized from a PBS solution.

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

Purity

≥ 95% (SDS-PAGE)

Endotoxin Level

≤ 1 EU/mg

Preparation Instructions

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.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at -20 °C.

Upon reconstitution, the cytokine can be stored at 2-8 °C for short term only, or at -20 °C to -80 °C in aliquots for long term. Avoid repeated freeze-thaw cycles.



References

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

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