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Product Information

HumanKine™ Interleukin-10, human recombinant, expressed in HEK 293 cells

Catalog Number **H7541**
Storage Temperature –20 °C

Synonym: IL-10

Product Description

HumanKine™ IL-10 is expressed in human 293 cells as a glycosylated, non-disulfide linked homodimer with an apparent molecular mass of 17 kDa due to glycosylation. Glycosylation contributes to stability in cell growth media and other applications.

The cellular sources of IL-10 are CD4+ T cells and T cell clones, thymocytes, B cells and B cell lymphomas, macrophages, mast cell lines, and keratinocytes.[1] IL-10 inhibits the production of several cytokines, IFN-γ, IL-2, IL-3, TNF, and GM-CSF. It is an antgonist of IL-12 and inhibits the secreation of TNF-α. IL-10 is a chemoattractant for T lymphocytes toward CD8+ cells, but not CD4+ cells. It also stimulates the growth of mast cells, is a cytotoxic T cell differentiation factor, and stimulates B cell differentiation.

This product is lyophilized from a solution of 10 mM Tris-HCl, pH 7.4, with 150 mM NaCl.

ED_{50}: ≤3.0 ng/mL

The specific activity is determined by the dose-dependent stimulation of the proliferation of mouse MC/9 cell line (mouse mast cell line) in the presence of 200 pg/mL IL-4.

Purity: ≥95%

Endotoxin level: ≤1 EU/μg

Precautions and Disclaimer

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

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.

Storage/Stability

Store the product at –20 °C. The lyophilized product remains active for one year 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. Rennick, D., et al., Prog.Growth Factor Research, **4**, 207 (1992).
2. Thompson-Snipes, L. et al., J. Exp. Med., **173**, 507-510 (1991).
3. Syto, R. et al., Biochemistry, **37**, 16943-16951 (1998).

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