

Product Information

Interleukin-23 Human

IL-23, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

H8041

Product Description

HumanKine® IL-23 is expressed as a heterodimeric 55 kDa cytokine composed of two glycosylated and disulfide-linked subunits (p40 cystine linked to p19). Production in human HEK 293 cells offers authentic glycosylation. Cytokines produced in Sf9 or Sf21 cells have post-translational modifications, which are not human-like.

IL-23 belongs to the IL-6/IL-12 protein family. The biological activity of IL-23 has similarities to IL-12 such as the induction of proliferation IFN-γ, and the effects of IL-23 are restricted to memory T cells. IL-23 promotes production of proinflammatory cytokines and acts in concert with IL-17 to promote an acute response to infection in peripheral tissues. It binds to a hetero-dimeric receptor complex and activates the Jak-Stat signaling cascade.

This product is lyophilized from a PBS solution.

ED50: ≤ 40 ng/mL

The specific activity was determined by the dose-dependent secretion of human IFN- γ or IL-8 from human PBMC.

Purity: ≥ 95%

Endotoxin level: < 1 EU/µg

Precautions and Disclaimer

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.

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 to -80 °C. The lyophilized product remains active for one year from date of receipt at -20 °C to -80 °C. The lyophilized product can be stored at 2-8 °C for short term only.

After reconstitution, store in working aliquots at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.



References

- Aggarwal, S., et al., J.B.C., 278, 1910-1914 (2003).
- Kastelein, R.A., et al., Annu. Rev. Immunol., 25, 221-242 (2007).

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