
Human IL-16 Recombinant Protein

Catalog Number: 14-8169

Also Known As: Interleukin-16, IL16

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Human IL-16 Recombinant Protein

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Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E.coli

Purity: > 90%, as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by chemotaxis assay of human T cells. Maximal chemoattractant activity was observed between 10-100 ng/mL.

Formulation: Sterile liquid; 10 mM phosphate, 150 mM NaCl with 1.0% BSA. 0.22 um filtered.



Temperature Limitation: Store at less than or equal to -70°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

Interleukin 16 (IL-16), also called LCF, is a CD8+ T cell-derived cytokine that induces chemotaxis of CD4+ T cells and CD4+ monocytes and eosinophils. The native IL-16 is a proteolytic cleavage product of the pro-IL-16 generated by proteases present in or on activated CD8+ cells. IL-16 also induces expression of IL-2 receptor (IL-2R) and MHC class II molecules on CD4 + T cells. Human and mouse IL-16 have significant cross reactivity.

Applications Reported

Recombinant human IL-16 is biologically active.

Applications Tested

This recombinant human IL-16 has been tested in bioassays for chemoattractant activity, with maximal activity between 10-100 ng/ml.

References

Baier, M., et al. 1997. Molecular cloning, sequence, expression, and processing of the interleukin 16 precursor. Proc. Nat. Acad. Sci. 94: 5273-5277.

Bandeira-Melo, C., et al. 2002. IL-16 promotes leukotriene C4 and IL-4 release from human eosinophils via CD4- and autocrine CCR3-chemokine-mediated signaling. J. Immun. 168: 4756-4763.

Cruikshank, W. W., et al. 1994. Molecular and functional analysis of a lymphocyte chemoattractant factor: association of biologic function with CD4 expression. Proc. Nat. Acad. Sci. 91: 5109-5113.

Keane, J., et al. 1998. Conservation of structure and function between human and murine IL-16. J. Immun. 160: 5945-5954.

Lynch, E. A., et al. 2003. Cutting edge: IL-16/CD4 preferentially induces Th1 cell migration: requirement of CCR5. J. Immun. 171: 4965-4968.

Related Products

14-8089 Human IL-8 Recombinant Protein

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