
Mouse IL-17AF Recombinant Protein

Catalog Number: 14-8172

Also known as: Interleukin-17A/F, IL17A/F

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

Product Information

Contents: Mouse IL-17AF Recombinant Protein



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Concentration: 0.1 mg/mL

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

Source: Insect cell expressed mouse IL-17A disulfide-linked with IL-17F accession # NM_010552, NM_145856

Molecular Mass: 32.2 kDa

Purity: > 98% as determined by SDS-PAGE.

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

Bioactivity: Measured by induction of IL-6 production by NIH/3T3 cells. The ED50 is typically 10 ng/mL, corresponding to a specific activity of 1.0 x 10⁵ Units/mg.

Formulation: Sterile liquid; 20mM sodium phosphate, 0.2M NaCl, pH 6.5, 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

The interleukin 17 (IL-17) family proteins comprise six members (17A through 17F). However, recent studies found that co-expression of IL-17F and IL-17A in HEK293 cells results in the formation of biologically active IL-17F/IL-17A heterodimers, in addition to the IL-17F homodimers and IL-17A homodimers. Activated human CD4+ T cells were found to produce the IL-17A/F heterodimer, along with the corresponding homodimers. IL-17A was most potent, followed by IL-17A/F heterodimer, then IL-17F (100fold lower than IL-17A). Activated human CD4+ T cells in culture were found to secrete IL-17F homodimer at 10-fold higher levels than IL-17A homodimer, suggesting that the majority of the IL-17A protein expressed exists in the form of the IL-17A/F heterodimer.

Applications Reported

For research use only, not for diagnostic or therapeutic use. The recombinant mouse IL-17A/F has been reported useful for bioassay and ELISA.

Applications Tested

This recombinant mouse IL-17A/F has been tested in bioassay for its ability to induce IL-6 production by NIH/3T3 cells. The ED50 for this effect is typically 10 ng/mL, corresponding to a specific activity of 1.0 x 10⁵ U/mg.

References

Chang, S.H., Dong, C., 2007. A novel heterodimeric cytokine consisting of IL-17 and IL-17F regulates inflammatory responses. *Cell Research* 17:435-440. Wright, J.F., et al. 2007. Identification of an IL-17F/17A heterodimer in activated human CD4+ T cells. *J. Biol. Chem.* 282: 13447-13455

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