PRODUCT DATA SHEET

CHI-MF-11135

IL-35 (mouse):Fc (human) (rec.)
[Interleukin-35]

CHI-MF-11135-C005  5 µg
CHI-MF-11135-C025  25 µg

Source/Host

CHO cells

Sequence

The mouse IL-35 complex composed of the Ebi3 subunit (aa 23-228) and the IL-12a (p35) subunit (aa 23-215) is fused through a polypeptide linker to the Fc region of human IgG1.

Handling / Storage

Shipping

BLUE ICE

Short Term Storage

+4°C

Long Term Storage

-20°C

Avoid freeze/thaw cycles.

Use / Stability

Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Manufactured by Chimerigen.

Product Specifications

Biological Activity

Bioactivity was measured in a cell proliferation assay of Con A activated mouse splenocytes.

Purity

≥98% (SDS-PAGE)

Formulation

Lyophilized from 0.2µm-filtered solution in PBS.

Reconstitution

Reconstitute at 100µg/ml in sterile PBS.

Endotoxin Content

<0.06EU/µg protein (LAL test; Lonza).

Other Product Data

NCBI reference NP_056581.1:  Ebi3 subunit (mouse)

NCBI reference NP_032377.1:  IL-12a subunit (mouse)

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use.

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For Local Distributors see
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Product Description

Interleukin-35 (IL-35) is a novel IL-12 family cytokine produced by regulatory T cells (Treg) but not by resting or activated effector T cells (Teff). IL-35 is a heterodimeric protein composed of EBI3 (Epstein-Barr-Virus-induced gene 3) and IL-12a (p35). EBI3 is a downstream target of Foxp3, a transcription factor required for Treg-cell development and function, and thus Treg-cell restriction of IL35 occurs. Regulatory T cells are essential for maintaining self tolerance and preventing autoimmunity, and IL-35 is identified as a molecule that mediates the immune suppression function of Treg-cell. As an inhibitory cytokine, IL-35 induces proliferation of Treg-cell populations but suppresses Th17 cell development. Studies in mice show the absence of either IL-35 chain from Treg-cell reduces the cells’ ability to suppress inflammation using an experimental model for inflammatory bowel disease. IL-35 is suggested as a potential target of immunotherapy.

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