Miltenyi Biotec

Human IL-35
research grade

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1. Description

Products	Human IL-35, research grade. Recombinant human interleukin 35.

Content in µg	Order no.
2	130-112-947
10	130-112-950

Biological activity	Activity is determined by its ability to inhibit proliferative activity of peripheral blood mononuclear cells (PBMCs).
Primary structure	Heterodimeric, covalently linked glycosylated polypeptide chains (406 amino acid residues).
Molecular mass	45.9 kDa.
Source	Produced in HEK293 cells.
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.
Stabilizer	None.
Purity	>90% as determined by SDS-PAGE analysis.
Endotoxin level	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.
Storage	Lyophilized Human IL-35, research grade should be stored at –20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at –20 °C or below. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute lyophilized Human IL-35, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 100 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.

1.1 Background information

Human interleukin 35 (IL-35) consists of the IL-12 subunit alpha and the IL-27 subunit beta which is also known as EBI3. It plays a role in immune suppression and is produced by regulatory T cells and macrophages. IL-35 suppresses effector T cell proliferation, inhibits Th17 cell development, and promotes the conversion of T cells and B cells into regulatory T and B cells. Additionally, it is involved in regulation of tumor growth, autoimmune disease, and infectious tolerance.

1.2 Applications

Human IL-35 can be used for a variety of applications including:

- Induction of regulatory T cells.
- Regulation of tumor growth.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68, 51429 Bergisch Gladbach, Germany
Phone +49 2204 8306-0, Fax +49 2204 85197
macsde@miltenyi.com
www.miltenyibiotec.com

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