Rev09
Update: Aug,20,2025

DATASHEET

IL-11, Mouse(HEK 293-expressed)

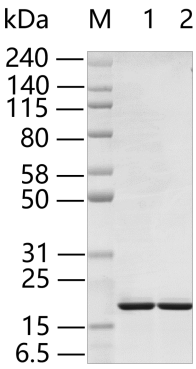
Cat. No.: Z03052

Product Introduction

Species	Mouse
Protein Construction	IL-11 (Gly23-Leu199) Accession # P47873
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 3.0 ng/ml, measured in a cell proliferation assay using TF-1 cells.
Expression System	HEK 293
Apparent Molecular Weight	~21 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples

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Lane 1: 2 μg of IL-11, Mouse(HEK 293-expressed), reducing (R)
Lane 2: 2 μg of IL-11, Mouse(HEK 293-expressed), non-reducing (NR)
> 95% as analyzed by SDS-PAGE

Background

Target Background : Interleukin-11 (IL-11) is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1α-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell.

Synonyms : IL11; AGIF; IL-11; interleukin 11

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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