
Mouse IL-11 Recombinant Protein

Catalog Number: 14-8110

Also known as: Interleukin-11, IL11

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

Product Information

REF **Contents:** Mouse IL-11 Recombinant Protein
Catalog Number: 14-8110
Concentration: 0.1 mg/mL
Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile environment.
Source: E. coli expressed amino acids Pro22-Leu199 accession number NP_032376
Molecular Mass: 19.3 kDa
Purity: > 97%, as determined by SDS-PAGE
Endotoxin: Less than 0.1 ng/ug cytokine as determined by the LAL assay.
Bioactivity: The bioactivity of this protein, as measured by T11 cell proliferation, is 1.7 ng/mL. This corresponds to a specific activity of 5.9 x 10⁵ Units/mg.

Formulation: Sterile liquid: phosphate buffered saline, 1% BSA, pH 7.2. 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



LOT



Description

IL-11 belongs to the IL-6 family of cytokines and is produced by various cell types, including epithelial cells, endothelial cells, keratinocytes, stromal cells, and neurons. It signals through a heterodimeric receptor consisting of a gp130 subunit shared by several other cytokines and an IL-11R α subunit unique to IL-11. IL-11 exhibits pleiotropic effects on various cell types. It acts synergistically with other growth factors such as IL-3, SCF, and IL-4 to promote the development of cells from several hematopoietic lineages and also plays a role in the regulation of osteoclast differentiation and maturation. IL-11 can protect against cell death and inhibit inflammation at sites of tissue injury, but has also been implicated in Th2-mediated sensitization and inflammation in asthma.

Applications Reported

Mouse IL-11 Recombinant Protein is biologically active.

Applications Tested

The bioactivity of this protein, as measured by T11 cell proliferation, is 1.7 ng/ml. This corresponds to a specific activity of 5.9 x 10⁵ Units/mg.

References

Du X, Williams DA. Interleukin-11: review of molecular, cell biology, and clinical use. Blood 1997 Jun 1; 89(11): 3897-908.

Lee CG, Hartl D, Matsuura H, Dunlop FM, Scotney PD, Fabri LJ, Nash AD, Chen NY, Tang CY, Chen Q, Homer RJ, Baca M, Elias JA. Endogenous IL-11 signaling is essential in Th2- and IL-13-induced inflammation and mucus production. Am J Respir Cell Mol Biol. 2008 Dec; 39(6): 739-46.

Related Products

14-8119 Human IL-11 Recombinant Protein

51-1302 Anti-Mouse CD130 Alexa Fluor[®] 647 (To Be Discontinued. See replacement format: APC cat. 17-1302) (KGP130)

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