

Active Recombinant Mouse IL19 Protein (153 aa)

Cat. No. II19-3671 Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse Interleukin-19 (rmIL-19) produced in E. coli is a single non-glycosylated polypeptide chain containing of 153 amino acids. A fully biologically active molecule, rmIL-19 has a molecular mass of 17.7 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

Species Mouse

Source E.coli

Protein Length 153

Description Interleukin-19 (IL-19) is a cytokine belonging to the interleukin family. Structurally, IL-19 is grouped into the IL-10 sub-family, which also includes IL-20, IL-22, IL-24, and IL-26. In contrast to IL-10, which exists as a homodimer, IL-19 is stable and active as a monomer in vivo. IL-19 functions through the receptor complex composed of IL-20 Receptor α and IL-20 Receptor β , which is also utilized by IL-20 and IL-24. IL-19 is produced by active monocytes and stimulated synergistically by IL-17 and IL-13. The functions of IL-19 are to promote the development and function of Th2 cells and to enhance the production of Th2 cytokines. IL-19 is implicated in aging, vascular disease, Type I diabetes, and rheumatoid arthritis.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity ED50 < 50 ng/mL, measured by a cell proliferation assay using MCF-7 cells, corresponding to a specific activity of > 2 × 10⁴ units/mg.

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Molecular Mass	17.7 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	MLRRCLISVDMRLIEKSFHEIKRAMQTKDTFKNVTILSLENLRSIKPGDVCCMTNLLT FYRDRVFQDHQERSLEVLRRISSIANSFLCVQKSLERCQVHRQCNCSEQEATNATRII HDNYNQLEVSSAALKSLGELNILLAWIDRNLHLETPAA
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant mouse Interleukin-19 (rmIL-19) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmIL-19 remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 50mM acetic acid.
Reconstitution	Reconstituted in 50 mM acetic acid at 50 μg/mL.

GENE INFORMATION

Gene Name	IL19 interleukin 19 [<i>Mus musculus</i>]
Official Symbol	IL19
Synonyms	IL19; interleukin 19; interleukin-19; IL-19;
Gene ID	329244
mRNA Refseq	NM_001009940
Protein Refseq	NP_001009940

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UniProt ID

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