

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-19, Mouse

Catalog Number: BK0093-50µg

Source: Escherichia coli.

Quantity: 50µg

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. 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 at GenScript.

Molecular Weight:

17.7 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50 < 50 ng/mL, measured by a cell proliferation assay using MCF-7 cells, corresponding to a specific activity of $> 2 \times 10^4$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50mM acetic acid.

AA Sequence:

MLRRCLISVDMRLIEKS-
FHEIKRAMQTKDTEFKNVTILSLENLRSIKPGDVC
CMTNNLLTFYRDRVFQDHQERSLEVLRIS-
SIANSFLCVQKSLERCQVHRQCNCSEAT-
NATRIIHDNYNQLEVSSAALKSLGELNIL-
LAWIDRNHLETPAA

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in 50 mM acetic acid at 50 µg/mL.

Storage:

Lyophilized recombinant mouse Interleukin-19 (rmIL-19) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmIL-19 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.