

BACKGROUND:

Interleukin-19 (IL-19) is a member of the interleukin 10 (IL-10) cytokine family and is produced by B cells and monocytes. IL-19 binds the interleukin 20 receptor complex (IL-20R) to activate STAT3 signaling. IL-19 induces interleukin 6 (IL-6) and tumor necrosis factor alpha (TNFα) expression in monocytes, and promotes type 2 T helper (Th2) cell-mediated immune responses. IL-19 production is upregulated in resting monocytes following granulocyte-macrophage colony-stimulating factor (GM-CSF) or lipopolysaccharide (LPS) stimulation.

Recombinant mouse Interleukin-19 is a non-glycosylated protein monomer, containing 153 amino acids and having a molecular mass of 17.7 kDa.

Cat. No.:
RP2075AF

AA Sequence:

MLRRCLISVDMRLIEKSFHEIKRAMQTKDTFKNVTLSL
ENLRSIKPGDVCCMTNLLTFYRDRVFQDHQERSLEVL
RRISSIANSFLCVQKSLERCQVHRQCNCSEQEATNATRII
HDNYNQLEVSSAALKSLGELNILLAWIDRNHLETAA

TECHNICAL INFO**Source:**

E. coli

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Animal Component-Free

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

