

BACKGROUND

Interleukin-19 (IL-19) is a member of the IL-10 family produced by resting B cells and monocytes, being up-regulated when monocytes are treated with GM-CSF or LPS. IL-19 shares a receptor complex with IL-20, and functional acts to induce IL-6 and TNF- α production by monocytes and promotes the Th2 response.

Recombinant human IL-19 is a non-glycosylated protein, containing 155 amino acids and having a molecular mass of 17.9 kDa.

Alternative Names:

Melanoma differentiation associated-like protein

Amino Acid Sequence:

MLRRCLISTD MHHIEESFQE IKRAIQAKDT FPNVTILSTL
ETLQIIKPLD VCCVTKNLLA FYVDRVFKDH QEPNPKILRK
ISSIANSFLY MQKTLRQCQE QRQCHCRQEA TNATRVIHDN
YDQLEVHAAA IKSLGELDVF LAWINKNHEV MSSA

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human IL-19 is lyophilized from a concentrated (1mg/ml) solution in water containing 10mM sodium citrate, pH 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 a concentration of 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.

Biological Activity:

The activity is determined by the activation of STAT following receptor-ligand interaction.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

