

Recombinant Human Interleukin-19

#R00060

Size: 10 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Human Interleukin-19 (IL-19) is encoded by the IL19 gene, which is located on the chromosome 1. The protein belongs to the IL-10 family that includes IL-10, IL-20, IL-22, IL-24, and IL-26. As a monomer made of seven amphipathic helices, IL-19 has a helical bundle and shares the same cell surface receptor (IL-20R) with IL-20 and IL-24. It may play some important roles in inflammatory responses because it up-regulates IL-6 and TNF-alpha and induces apoptosis.

AA Sequence

LRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTILSTL
ETLQIIKPLDVCCVTKNLLAFYVDRVFKDHQEPNPKIL
RKISSIANSFLYMQKTLRQCQEQRQCHCRQEATNAT
RVIHDNYDQLEVHAAAIKSLGELDVFLAWINKNHEVM
SSA

Reconstitution

We recommend that this vial be briefly centrifuged prior

to opening to bring the contents to the bottom. Reconstitute in 100 mM HAC to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Melanoma Differentiation-associated Protein-like Protein, NG.1
Accession	Q9UHD0
GeneID	29949
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human IL-20Rα and human IL-20Rβ

	co-transfected murine BaF3 pro-B cells is less than 1.5 ng/ml, corresponding to a specific activity of $> 6.7 \times 10^5$ IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/ μ g of rHuIL-19 as determined by LAL method.
