

Active Recombinant Human IL19 protein

Cat. No. IL19-245H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IL19(Leu25-Ala177) was expressed in NS0.

Species Human

Source Mammalian Cells

ProteinLength 25-177 a.a.

Description

Interleukin 19 (IL-19) is a member of the IL-10 family of class II alpha -helical cytokines that contains two groups, a viral homolog and cellular homolog group. Within the cellular homolog group, there are two additional groupings, one which uses IL-10 R beta as a signal transducing receptor (IL-10, IL-22, and IL-26), and one which uses IL-20 R beta as a signal transducing receptor (IL-19, IL-20, and IL-24). The 153 amino acid (aa) mature human IL-19 is secreted as a glycosylated 35-45 kDa monomer. It shares approximately 70% aa sequence identity with mouse and rat IL-19. Human IL-19 may utilize an alternate start site that adds 38 aa to the N-terminus. Although mouse IL-19 is active on human cells, human IL-19 is not active on mouse cells. IL-19 is expressed on activated keratinocytes, monocytes, and B cells. It binds a receptor complex consisting of IL-20 R alpha and IL-20 R beta. This receptor complex is also shared by IL-20 and IL-24. It has been reported that IL-19 both will and will not induce IL-6 and TNF-alpha production by monocytes. It does, however, drive T helper cell differentiation towards a Th2 response, inducing both IL-10 and production of itself.

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Predicted N Terminal	Leu25
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Bio-activity	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human IL-20 R alpha and human IL-20 R beta. The ED50 for this effect is typically 0.1-0.6 ng/mL.
Molecular Mass	Predicted Molecular Mass: 18 kDa SDS-PAGE: 20-30 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in PBS.

GENE INFORMATION

Gene Name	IL19 interleukin 19 [Homo sapiens]
Official Symbol	IL19
Synonyms	IL19; interleukin 19; interleukin-19; IL 10C; IL 19; MDA1; melanoma differentiation associated protein like protein; NG.1; ZMDA1; melanoma differentiation associated

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protein-like protein; melanoma differentiation-associated protein-like protein; IL-10C;

Gene ID [29949](#)

mRNA Refseq [NM_013371](#)

Protein Refseq [NP_037503](#)

MIM [605687](#)

UniProt ID [Q9UHD0](#)

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