

Recombinant Human Interleukin-19 (Human IL-19)

Product Information

Product Name	Cat#	Size
Recombinant Human Interleukin-19 (Human IL-19)	90118ES10	10 µg
	90118ES60	100 µg
	90118ES76	500 µg

Product Description

The molecular features at the IL19 locus may modestly alter the establishment of HIV-1 infection. Interleukin (IL) 19, IL-20, and IL-24 belong to the IL-10 cytokine family and have been identified to play a role in the regulation of epidermal functions and inflammation. The expression of IL19 in biopsies of patients with active ulcerative colitis was increased compared with patients with quiescent ulcerative colitis and that colitis was attenuated in IL-19-deficient mice. The disruption of the epithelial barrier with dextran sodium sulfate leads to increased IL-19 expression. Attenuated colitis in IL-19-deficient animals was associated with reduced numbers of IL-6-producing macrophages in the inflamed colonic lamina propria. Microbial-driven expression of IL-19 by intestinal macrophages may contribute to the pathogenesis of inflammatory bowel disease.

Product Properties

Synonyms	Melanoma Differentiation-associated Protein-like Protein, NG.1
Accession	Q9UHD0
GeneID	29949
Source	E.coli-derived human IL-19 protein, leu25-Ala177.
Molecular Weight	Approximately 17.9 kDa.
AA Sequence	LRRCLISTDM HHIEESFQEI KRAIQAKDTF PNVTILSTLE TLQIHKPLDV CCVTKNLLAF YVDRVFKDQHQ EPNPKILRKI SSIANSFLYM QKTLRQCQEQ RQCHCRQEAT NATRVIHDNY DQLEVHAAA I KSLGELDVFL AWINKNHEVM SSA
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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 × 10 ⁵ IU/mg.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.