

IL-31 (Interleukin-31), Human

v. 230901

Catalog number	C01037-5UG / C01037-20UG / C01037-100UG
Package	5 µg / 20 µg / 100 µg
Description	Interleukin-31 (IL-31) is an inflammatory cytokine that helps trigger cell-mediated immunity against pathogens. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. It is produced by a variety of cells, namely type 2 helper (TH2) T-cells. IL-31 sends signals through a receptor complex made of IL-31RA and oncostatin M receptor β (OSMRβ) expressed in immune and epithelial cells. These signals activate three pathways: ERK1/2 MAP kinase, PI3K/AKT, and JAK1/2 signaling pathways.
Expression System	<i>Escherichia coli</i>
Species of Origin	Human
Sequence	Ser24-Thr164
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measured by its ability to induce A549 cells proliferation. The ED ₅₀ for this effect is < 40 ng/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none">• -20°C for 12 months in lyophilized state from date of receipt.• -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human IL-31

For research use only.