

## IL31

### Recombinant Human Interleukin-31

<b>Catalog No.</b>	CRI201A CRI201B CRI201C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	IL-31, interleukin-31		
<b>Description:</b>	<p>Recombinant Human IL-31 is a single non-glycosylated polypeptide chain containing 141 amino acids.</p> <p>Background: Interleukin-31 is a T-cell derived cytokine that shares several structural and functional characteristics with IL-6, Oncostatin M, LIF, and Cardiotrophin-1. It signals through a receptor complex comprised of GPL (GP130-like, IL-31RA) and OSMR (Oncostatin M receptor). GPL/OSMR signaling is a strong activator of STAT3 and STAT5, and can also activate STAT1, Jak1, and Jak2 signaling pathways. IL-31 regulated immune responses have been implicated in skin physiology and inflammatory skin diseases.</p>		
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Gene ID:</b>	386653		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	15.8 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH7.4.		
<b>Purity:</b>	>97% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	Less than 1EU/µg of rHuIL-31 as determined by LAL method.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The specific activity is determined by inducing STAT3 activation of U-87 MG human glioblastoma/astrocytoma cells. 5 ng/mL of rHuL-31 can effectively induce STAT3 activation.		
<b>Amino Acid Sequence:</b>	SHTLPVRLLR PSDDVQKIVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPLCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHC KRFILTISQQ FSECMDLALK SLTSGAQQAT T		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. <b>Avoid repeated freeze/thaw cycles.</b>		

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