

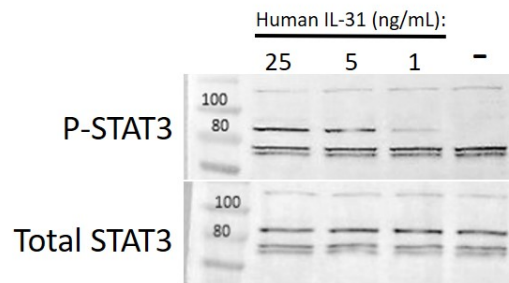
## IL31

### Recombinant Human Interleukin-31, Animal Free

<b>Catalog No.</b>	CRI201A-AF CRI201B-AF CRI201C-AF	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	IL-31		
<b>Description:</b>	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.		
<b>UniProt ID:</b>	Q6EBC2		
<b>Gene ID:</b>	386653		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without animal-derived reagents in an Animal Free facility.</b>		
<b>Molecular Weight:</b>	15.8 kDa (141 aa) monomer		
<b>Formulation:</b>	Lyophilized from a sterile filtered solution containing 20 mM NaCl, 50 mM NaCl, pH 7.5		
<b>Purity:</b>	≥ 95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1EU/µg, determined by kinetic LAL analysis.		
<b>Biological Activity:</b>	≤ 25 ng/ml, demonstrates STAT3 activation of U-87 MG cells.		
<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 to a concentration of 0.1 mg/mL and gently pipet the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for reconstitution. A small amount of precipitate may be seen.		
<b>Storage &amp; Stability:</b>	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. <b>Avoid repeated freeze-thaw cycles.</b>		



## Human IL-31 Induced Activation of STAT3 in U-87MG Cells



Stimulation time: 10 min.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**