

## Recombinant Murine Interleukin-31 (rm IL-31)

**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.

Recombinant murine IL-31 produced in *E. Coli* is a 15.8 kDa protein containing 140 amino acid residues.

<b>Synonyms :</b>	none
<b>Source:</b>	<i>Escherichia coli</i>
<b>AA Sequence:</b>	MTCSLSFGAP ISKEDLRTTI DLLKQESQDL YNNYSIKQAS GMSADESIQL PCFSLDREAL TNISVIIAHL EKVKVLSSENT VDTSWVIRWL TNISCFNPLN LNISVPGNTD ESYDCKVFVL TVLKQFSNCM AELQAKDNTT C
<b>Formulation:</b>	Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate, pH 6.5 + 200 mM NaCl.
<b>Reconstitution:</b>	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
<b>Stability:</b>	The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm IL-31 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.
<b>Biological Activity:</b>	Testing in progress
<b>Purity:</b>	98% (verified by SDS-PAGE / silver stain)
<b>Endotoxicity:</b>	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
<b>Order N°:</b>	rm IL-31+Size available sizes: 2 µg, 10 µg, 50 µg

This material is offered **for laboratory research and in vitro use only**, not for drug, diagnostic or other use. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.