

## Animal-Free IL-31 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700123AF
<b>Synonyms:</b>	IL31; IL-31; Interleukin-31; Interleukin 31
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q6EBC2 (S24-T164)
<b>Gene ID:</b>	386653
<b>Molecular Weight:</b>	Approximately 16.78 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MSHTLPVRL L   RPSDDVQKIV   EELQSLSKML   LKDVEEEKGV LVSQNYTLPC   LSPDAQPPNN   IHSPAIRAYL   KTIRQLDNKS VIDEIEIHL D   KLIFQDAPET   NISVPTDTHE   CKRFILTISQ QFSECDLAL   KSLTSGAQQ A   TT           </pre>
<b>Biological Activity</b>	Measured by its ability to induce STAT3 activation in U-87 cells. The ED50 for this effect is <20 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>IL-31, a cytokine with diverse functions, acts by activating STAT3, and potentially STAT1 and STAT5, utilizing the IL-31 heterodimeric receptor formed by IL31RA and OSMR. This activation mechanism has been implicated in skin immunity, highlighting its role in modulating immune responses. Additionally, IL-31 exhibits the capacity to enhance myeloid progenitor cell survival in vitro, emphasizing its involvement in cellular processes beyond immune regulation. Furthermore, IL-31 induces the expression of key genes, such as RETNLA and serum amyloid A protein, in macrophages, suggesting a broader impact on inflammatory and immune-related pathways.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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