

## PRODUCT INFORMATION

**IL-23 p19 (Interleukin-23 p19), Human**

v. 231001

<b>Catalog number</b>	C01028-5UG / C01028-20UG / C01028-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	<p>IL-23 is an important part of the inflammatory response against infection. It promotes upregulation of the matrix metalloprotease MMP9, increases angiogenesis and reduces CD8+ T-cell infiltration into tumours. IL-23 mediates its effects on both innate and adaptive arms of the immune system that express the IL-23 receptor. Th17 cells represent the most prominent T cell subset that responds to IL-23, although IL-23 has been implicated in inhibiting the development of regulatory T cell development in the intestine. Th17 cells produce IL-17, a proinflammatory cytokine that enhances T cell priming and stimulates the production of other proinflammatory molecules such as IL-1, IL-6, TNF-alpha, NOS-2, and chemokines resulting in inflammation.</p>
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	<p>RAVPGGSSPAWTQCQQLSQKLCTLAWSAHPLVGHMDLREEGDEETTNDVPHI          QCGDGCDPQGLRDNSQFCLQRHQGLIFYEKLLGSDIFTGEPSELLPDSVPGQLH          ASLLGLSQQLLQPEGHHWETQQIPSLSPSQPWQRLLLRFKILRSLQAFVAVAAARV          FAHGAATLSP with polyhistidine tag at the N-terminus</p>
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measured by its ability to induce IL-17 secretion in mouse splenocytes. The ED <sub>50</sub> for this effect is <0.5 ng/mL.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> 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.
<b>Stability &amp; Storage</b>	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> <p>Avoid repeated freeze/thaw cycles.</p>



SDS-PAGE analysis of recombinant human IL-23 p19

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*For research use only.*