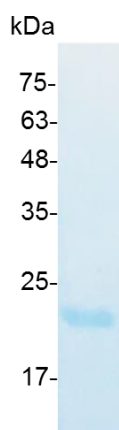


PRODUCT INFORMATION

Croyez GMP® IL-6 (Interleukin-6), Human

Catalog number	C01008-GMP-100 / C01008-GMP-1000
Package	100 µg / 1 mg
Description	Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. In humans, it is encoded by the IL6 gene. In addition, osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. IL-6's role as an anti-inflammatory myokine is mediated through its inhibitory effects on TNF-alpha and IL-1, and activation of IL-1RA and IL-10.
Source	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
Sequence	MVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILDGIALRKETCNKSNMCESSK EALAENNLNLPKMAEKDGCQSGFNEETCLVKIITGLLEFEVYLEYLQNRFFESSE EQARAVQMSTKVLIQFLQKKAKNLDAITTPDPTTNASLLTKLQAQNQWLQDMTT HLILRSFKEFLQSSLRALRQM with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce proliferation in TF-1 cells The ED ₅₀ for this effect is <0.5 ng/mL. The specific activity of recombinant human IL-6 is approximately >5 x 10 ⁸ IU/mg. Measure by its ability to induce proliferation in MCF-7 cells. The ED ₅₀ for this effect is <4.4 ng/mL.
Purity	>98% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

Note	Please use within one month after protein reconstitution.
Specification	<p>Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:</p> <ul style="list-style-type: none">● Testing and traceability of raw material● Records of the maintenance and equipment calibration● Personnel training records● Batch-to-batch consistency● Documentation of QA control and process changes● Manufactured and tested under an ISO 13485:2016 certified quality management system● Stability monitor of product shelf-life
Reference	<ol style="list-style-type: none">1. Tanaka T. et al. (2014) <i>Cold Spring Harb Perspect Biol.</i> 6,10: a016295.2. Mihara M. et al. (2012) <i>Clin Sci (Lond).</i> 122,4: 143-59.3. Kishimoto T. (2010) <i>Int Immunol.</i> 22,5: 347-52.4. Tanaka T. et al. (2016) <i>Adv Exp Med Biol.</i> 941: 79-88.



SDS-PAGE analysis of Croyez GMP® IL-6, Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.