

Croyez GMP® IL-4 (Interleukin-4), Human

v. 230901

Catalog number	C01006-GMP-100 / C01006-GMP-1000
Package	100 μg / 1 mg
Description	The interleukin-4 (IL-4) is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. The cell that initially produces IL-4, thus inducing Th2 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. It is closely related and has functions similar to IL-13.
Expression System	Escherichia coli
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	His25-Ser153
Endotoxin level	<0.05 EU per 1 μ g of the protein by the LAL method.
Activity	Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant human IL-4 is approximately >2.8 x 10^7 IU/mg.
Purity	>98% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved .
Stability & Storage	 This product is stable after storage at: -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Specification	Croyez GMP [®] recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

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	Animal-free reagent and laboratory
	Manufactured and tested under GMP guideline
	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	1. Junttila IS. (2018) Front Immunol. 9: 888.
	2. Ho IC, Miaw SC. (2016) Adv Exp Med Biol. 941: 31-77.
	3. Brown MA, Hural J. (2017) Crit Rev Immunol. 37,2-6: 181-212.
	4. Luzina, IG. et al. (2012) <i>J Leukoc Biol.</i> 92,4: 753-64.
	kDa
	75- 60-
	45-
	35-
	25-
	17-

SDS-PAGE analysis of Croyez GMP® IL-4, Human

11-

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