Recombinant Chicken IL-9 (N-His)

Information

Gene ID	001037825.1
Accession #	C4PAQ5
Alternate Names	Chicken IL-9, IL9, Interleukin-9, P40, HP40, Cytokine P40, T-cell growth factor P40
Source	E.coli
Protein sequence	RGSQNCQVSEIIRNTRSLLNKTQESCPCRETAATPCSCLPIPEPGHELACFVEGTKHMLEHNMTSNIKLLLLN QSFQIQRDRNLCESLTRGKKCEYKTKGTVRTFLEKILKTYQEIHKSRVAAA
Tag	N-His
M.Wt	Approximately 18.4 kDa
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -3 years from date of receipt, -20 to -70°C as supplied.
Concentration	5 mg/mL
Formulation	Supplied as a 0.2 μm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Significantly downregulates IL-10 mRNA levels; significantly upregulates IL-2, IL-4, IL-17A, IFN-γ, and TGF-β1 mRNA levels; significantly upregulates IL-1β, IL-6, and TNF-α mRNA levels.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 98 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/mg as determined by LAL method.

Description

Chicken interleukin-9 (Gallus gallus Interleukin-9, Chicken IL-9) is a secreted pleiotropic cytokine belonging to the IL-7/IL-9 family. Unlike mammalian IL-9, chicken IL-9 was cloned and functionally characterized relatively late: a 2022 study first cloned chicken IL-9 and found that its amino acid identity with mammalian IL-9 is less than 30%. Chicken IL-9 mRNA is abundantly detected only in the testis and thymus, and is significantly upregulated in mitogen-stimulated peripheral blood mononuclear cells (PBMCs); native chicken IL-9 is expressed as a glycosylated protein in activated PBMCs with a molecular weight of approximately 25 kD. Functionally, recombinant chicken IL-9 activates monocytes/macrophages to produce inflammatory cytokines and promotes CD3+ T cell proliferation, suggesting conserved pro-inflammatory and pro-proliferative activities in avian immune regulation.

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