

IL-4 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700748
Synonyms:	IL4; IL-4; interleukin 4; MGC79402; pitrakinra; B cell growth factor 1; BCDF; BCGF1; BCGF-1; binetrakin; BSF1; BSF-1; BSF-1
Species:	Cynomolgus
Source:	HEK293
Accession:	P79339-1 (H25-S153)
Gene ID:	107130068
Molecular Weight:	23-28 kDa

PROPERTIES

Biological Activity	Cynomolgus IL-4, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-4 R alpha, His Tag with an affinity constant of 13.48 nM as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-4 protein plays a pivotal role in various B-cell activation processes and other cell types, acting as a costimulator for DNA synthesis. Additionally, it promotes the expression of class II MHC molecules on resting B-cells and enhances the secretion and cell surface expression of both IgE and IgG1. IL-4 also regulates the expression of CD23, the low affinity Fc receptor for IgE, on lymphocytes and monocytes. Furthermore, it positively regulates IL31RA expression in macrophages and stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and inducing RUFY4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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