IL-4 Protein, Cynomolgus (P.pastoris, His)

Cat. No.:	HY-P71794
Synonyms:	IL4Interleukin-4; IL-4; B-cell stimulatory factor 1; BSF-1; Lymphocyte stimulatory factor 1
Species:	Cynomolgus
Source:	P. pastoris
Accession:	P79339 (H25-S153)
Gene ID:	107130068
Molecular Weight:	Approximately 16.9 kDa

PROPERTIES

AA Sequence	H K C D I T L Q E I I K T L N S L T E Q K T L C T K L T I T D I L A A S K N T T E K E T F C R A A T V L R Q F Y S H H E K D T R C L G A T A Q Q F H R H K Q L I R F L K R L D R N L W G L A G L N S C P V K E A N Q S T L E N F L E R L K T I M R E K Y S K C S S
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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.

Caution: Product has not been fully validated for medical applications. For research use only.

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