

IL-4 Protein, Rhesus macaque

Cat. No.:	HY-P71859
Synonyms:	IL4Interleukin-4; IL-4; B-cell stimulatory factor 1; BSF-1; Lymphocyte stimulatory factor 1
Species:	Rhesus Macaque
Source:	E. coli
Accession:	P51492 (H25-153S)
Gene ID:	574281
Molecular Weight:	Approximately 14.9 kDa

PROPERTIES

AA Sequence	<p> H N C H I A L R E I I E 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 D F L E R L K T I M R E K Y S K C S S </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 2 xPBS, 5 % Trehalose, pH 7.4.
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	<p>IL-4 protein actively participates in various B-cell activation processes and other cell types, acting as a costimulator of DNA synthesis. Moreover, it induces the expression of class II MHC molecules on resting B-cells and enhances the secretion and cell surface expression of IgE and IgG1. IL-4 also plays a regulatory role in the expression of the low affinity Fc receptor for IgE (CD23) on lymphocytes and monocytes. Additionally, it positively regulates IL31RA expression in macrophages and stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and inducing RUFY4.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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