

Animal-Free IL-4 Protein, Pig (His)

Cat. No.:	HY-P700248AF
Synonyms:	rPoIL-4; BSF-1; IL4
Species:	Pig
Source:	E. coli
Accession:	Q04745 (H25-C133)
Gene ID:	397225
Molecular Weight:	Approximately 13.5 kDa

PROPERTIES

AA Sequence	M H K C D I T L Q E I I K T L N I L T A R K N S C M E L P V T D V F A A P E N T T E K E T F C R A S T V L R H I Y R H H T C M K S L L S G L D R N L S S M A N M T C S V H E A K K S T L K D F L E R L K T I M K E K Y S K C
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the 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 actively participates in several B-cell activation processes and various cell types, serving as a costimulator of DNA synthesis. It induces the expression of class II MHC molecules on resting B-cells, enhances the secretion and cell surface expression of IgE and IgG1, and regulates the expression of the low affinity Fc receptor for IgE (CD23) on lymphocytes and monocytes. Additionally, IL-4 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA