

Recombinant Rat IL-4 Protein

Catalog Number: PDMR100003



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Interleukin-4;IL4;B-cell stimulatory factor 1;BSF-1;Binetrakin;Lymphocyte stimulatory factor 1;Pitrakinra
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-Ser147
Accession	P20096
Calculated Molecular Weight	16.5 kDa
Observed molecular weight	17 kDa
Tag	C-His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol, 0.01% tween-80. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Reconstitution	Please refer to the specific buffer information in the print Please refer to the printed manual for detailed information.

Background

Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages. Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4.

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