

Recombinant Rat IL-5 protein (His tag)

Catalog Number: PDMR100026



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

Description

Synonyms	Interleukin-5;IL-5;B-cell growth factor II;BCGF-II;Cytotoxic T-lymphocyte inducer;Eosinophil differentiation factor;T-cell replacing factor;TRF;Il5
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-Val132
Accession	Q08125
Calculated Molecular Weight	14.41 kDa
Observed molecular weight	25 kDa
Tag	C-His

Properties

Purity	> 95 % 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. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Background

Interleukin 5 (IL-5) is a member of the interleukin family. Interleukins are a group of cytokines (secreted proteins/signaling molecules) that were first seen to be expressed by white blood cells (leukocytes) and has been found in a wide variety of body cells. Interleukin 5 or IL-5 is produced by T helper-2 cells and mast cells. It helps to stimulate B cell growth and increase immunoglobulin secretion and is considered a key mediator in eosinophil activation. Interleukin 5 (IL-5) has long been associated with several allergic diseases, including allergic rhinitis and asthma. Growth in the number of circulating, airway tissue, and induced sputum eosinophils have been observed in patients with these diseases. IL-5 also had something with the terminally differentiated granulocyte eosinophils. IL-5 was originally found as an eosinophil colony-stimulating factor. It has been proved to be a major regulator of eosinophil accumulation in tissues and can modulate eosinophil behavior at every stage from maturation to survival.

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