

Product datasheet

Recombinant human IL-4 protein (Fc Chimera Active) ab214981

Description

Product name	Recombinant human IL-4 protein (Fc Chimera Active)	
Biological activity	Shows the biological function of the IL4 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.	
Purity	>= 98 % SDS-PAGE.	
Endotoxin level	< 0.060 Eu/μg	
Expression system	CHO cells	
Accession	P05112	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MGLTSQLLPPLFFLLACAGNFVHGHKCDITLQEIIKTLN SLTEQKTLCTE LTVTDIFAASKNTEKETFCRAATVLRQFYSHHEKDTR CLGATAQQFHRH KQLIRFLKRLDRNLWGLAGLNSCPVKEANQSTLENFLE RLKTIMREKYSK CSS	
Amino acids	1 to 153	
Additional sequence information	Full length protein fused to the N-terminus of the Fc region of a mutant human IgG1.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab214981** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilised
Additional notes	Non-lytic: Acts as a long lasting fusion protein which only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins

incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle.

Constituent: 100% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute 10 µg vial in 100 µL sterile water. Add 1X PBS to the desired protein concentration. Working aliquots are stable for up to 3 months when stored at -20°C.

General Info

Function

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.

Involvement in disease

Genetic variations in IL4 may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.

Sequence similarities

Belongs to the IL-4/IL-13 family.

Cellular localization

Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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