

## Product datasheet

# Recombinant mouse IL-21R protein (Fc Chimera Active) ab215030

### Description

<b>Product name</b>	Recombinant mouse IL-21R protein (Fc Chimera Active)	
<b>Biological activity</b>	Shows the biological function of the IL-21R moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.	
<b>Purity</b>	>= 98 % SDS-PAGE.	
<b>Endotoxin level</b>	< 0.060 Eu/μg	
<b>Expression system</b>	CHO cells	
<b>Accession</b>	<u><b>Q9JHX3</b></u>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Mouse	
<b>Sequence</b>	CLDLTCYTDYLTITCVLETRSPNPSILSLTWQDEYEELQD QETFCSLHR SGHNTTHWYTCHMRLSQFLSDEVFIVNVTQSGNNSQEC GSFVLAESIK PAPPLNVTVAFSGRYDISWDSAYDEPSNYVLRGKLQYELQ YRNLRDYPYAV RPVTKLISVDSRNVSLPEEFHKDSSYQLQVRAAPQPGTS FRGTWSEWSD PVIFQTQAGEPEAGW	
<b>Amino acids</b>	20 to 234	
<b>Additional sequence information</b>	Extracellular domain, fused to the N-terminus of the Fc region of a mutant mouse IgG2a. (AAL82636.1).	

### Specifications

Our **Abpromise guarantee** covers the use of **ab215030** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
	Functional Studies

<b>Form</b>	Lyophilized
<b>Additional notes</b>	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

<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</p> <p>Constituent: PBS</p> <p>Lyophilized from 0.2 µm filtered solution.</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	Reconstitute vial with 100 µL sterile water. Working aliquots are stable for up to 3 months when stored at -20°C.

## General Info

<b>Function</b>	This is a receptor for interleukin-21.
<b>Tissue specificity</b>	Selectively expressed in lymphoid tissues. Most highly expressed in thymus and spleen.
<b>Sequence similarities</b>	<p>Belongs to the type I cytokine receptor family. Type 4 subfamily.</p> <p>Contains 2 fibronectin type-III domains.</p>
<b>Domain</b>	<p>The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.</p> <p>The box 1 motif is required for JAK interaction and/or activation.</p>
<b>Post-translational modifications</b>	C-mannosylated at Trp-214 in the WSXWS motif, the sugar chain makes extensive hydrogen bonds with Asn-73 sugar, and bridges the two fibronectin domains transforming the V-shaped receptor into an A-frame.
<b>Cellular localization</b>	Membrane.

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

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