

Product datasheet

Recombinant Human IL5RA protein (Fc Chimera)
 ab83828

3 Images

Overview

| | |
|-----------------------|--|
| Product name | Recombinant Human IL5RA protein (Fc Chimera) |
| Protein length | Protein fragment |

Description

| | |
|---------------|---------------|
| Nature | Recombinant |
| Source | HEK 293 cells |

Amino Acid Sequence

| | |
|------------------|--|
| Accession | Q01344 |
| Species | Human |
| Sequence | DLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNPDQEQRNVNLEYQVKIN APKEDDYETRITESKCVTILHKGFSASVRTILQNDHSLASSWASAEHLA PPGSPGTSIVNLTCTTNTTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYF LYRYGSWTEECQEYSKDTLGRNIACWFPRTFILSKGRDWLAVLVNGSSK HSAIRPFDQLFALHAIDQINPPLNVTAEIEGTRLSIQWEKPVSAFPIHCF DYEVKIHNTRNGYLQIEKLMTNAFISIIDDLSKYDVQVRAAVSSMCREAG LW |

| | |
|--|--|
| Molecular weight | 62 kDa including tags |
| Amino acids | 21 to 322 |
| Additional sequence information | Chimeric Protein: A DNA sequence (aa 21-322) was fused to the Fc region of human IgG1 (aa 93-330). |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab83828** in the following tested applications.

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

| | |
|---------------------|--------------------|
| Applications | SDS-PAGE |
| Purity | >95% by SDS-PAGE . |
| Form | Lyophilised |

Additional notes

Molecular mass: Chimera migrates as a broad band between 70 and 80 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified Chimera that has a predicted molecular mass of 62.1 kDa. The final cellular processed form of the protein is expected to be 301 amino acids in length.

pI: Chimera separates into a number of isoforms with a pI between 5.8 and 7.0 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified Chimera that has a predicted pI of 6.34.

Chimera consists of 10-25% carbohydrate by weight.

Chimera has N-linked and O-linked oligosaccharides.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Reconstitute for long term storage.

Constituents: 89% PBS, 10% Trehalose, 1% Human serum albumin

Reconstitution

It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.

Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

General Info

Function

This is the receptor for interleukin-5. The alpha chain binds to IL5.

Tissue specificity

Expressed on eosinophils and basophils.

Sequence similarities

Belongs to the type I cytokine receptor family. Type 5 subfamily.

Domain

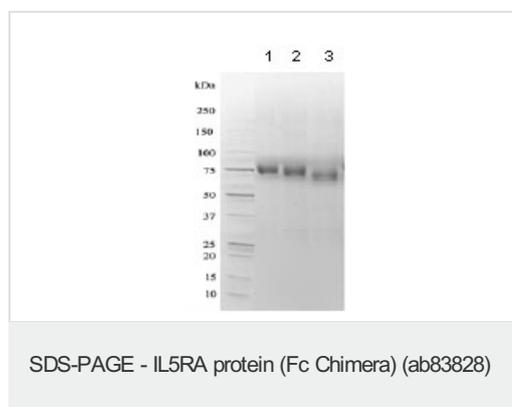
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Cellular localization

Membrane.

Images



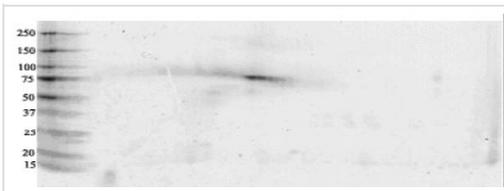
1D SDS-PAGE of ab83828 before and after treatment with glycosidases to remove oligosaccharides.

Lane 1: ab83828

Lane 2: ab83828 treated with PNGase F to remove potential N-linked glycans

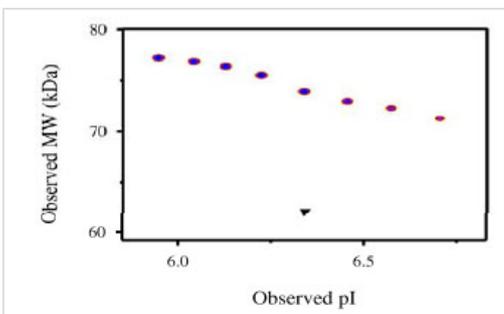
Lane 3: ab83828 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.

10 µg protein loaded per lane; Deep Purple™ stained.



SDS-PAGE - IL5RA protein (Fc Chimera) (ab83828)

A sample of ab83828 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. 40 µg protein loaded per lane; Deep Purple™ stained.



SDS-PAGE - Human IL5RA protein fragment (ab83828)

Densitometry of protein isoforms visualised by 2-DE.

The densitometry scan demonstrates the purified Human cell expressed protein exists in multiple isoforms, which differ according to their level of post-translational modification.

The triangle indicates the theoretical MW and pI of the protein.

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