

## Product datasheet

# Recombinant human TRAP/CD40L protein (Soluble, Animal Free) ab179625

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### Description

<b>Product name</b>	Recombinant human TRAP/CD40L protein (Soluble, Animal Free)
<b>Biological activity</b>	HEK-blue™ CD40L Activity: ED50 ≤50 ng/ml; ≥ 2.0 x 10 <sup>4</sup> units/mg.
<b>Purity</b>	≥ 98 % SDS-PAGE. Also determined by HPCL and spectroscopy at 280 nm.
<b>Endotoxin level</b>	≤1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P29965</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	Yes
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNL VTLENGKQLT VKRQGLYYIAQVTFCSNREASSQAPFIASLWLKSPGRFE RILLRAANTH SSAKPCGQQSIHLGGVFELQPGASVFVNVDPSQVSHGT GFTSFGLLKL
<b>Predicted molecular weight</b>	16 kDa
<b>Amino acids</b>	113 to 261
<b>Additional sequence information</b>	Full length soluble form
<b>Description</b>	Recombinant human TRAP/CD40L protein (Soluble)

### Specifications

Our **Abpromise guarantee** covers the use of **ab179625** 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>	Functional Studies
	SDS-PAGE
	HPLC

<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.

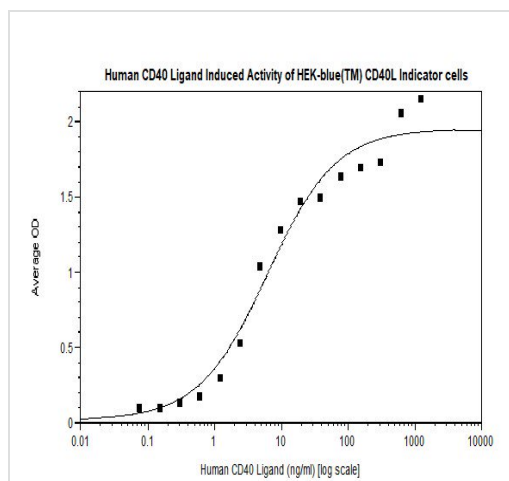
## Preparation and Storage

<b>Stability and Storage</b>	<p>Shipped at 4°C. Upon reconstitution add a carrier protein (0.1% BSA). Store at -20°C long term. Avoid freeze / thaw cycle.</p> <p>Constituent: 0.14% Sodium phosphate</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	<p>Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.</p>

## General Info

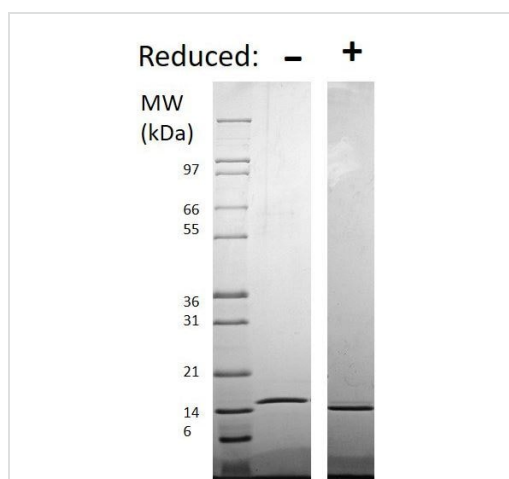
<b>Function</b>	<p>Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching.</p> <p>Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and an matrix metalloproteinases (MMP) inhibitor-sensitive pathway.</p>
<b>Tissue specificity</b>	Specifically expressed on activated CD4+ T-lymphocytes.
<b>Involvement in disease</b>	<p>Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1) [MIM:308230]; also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including Pneumocystis carinii pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence.</p>
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Post-translational modifications</b>	<p>The soluble form derives from the membrane form by proteolytic processing.</p> <p>N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40.</p> <p>Not O-glycosylated.</p>
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images



Functional analysis of ab179625

Functional Studies - Recombinant human  
TRAP/CD40L protein (Soluble, Animal Free)  
(ab179625)



SDS PAGE analysis of ab179625 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

SDS-PAGE - Recombinant human TRAP/CD40L  
protein (Soluble, Animal Free) (ab179625)

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

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