

**Recombinant Murine sCD40 Ligand**  
**Catalog # PBG10397****Specification**

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**Recombinant Murine sCD40 Ligand - Product Information****Recombinant Murine sCD40 Ligand - Additional Information****Description**

CD40, a member of the TNF receptor family, is a cell surface protein expressed on B cells, dendritic cells, monocytes, thymic epithelial cells and, at low levels, on T cells. Signaling through CD40 plays an important role in the proliferation and differentiation of B cells, and is critical for immunoglobulin (Ig) class switching. The membrane-anchored CD40-Ligand is expressed almost exclusively on activated CD4<sup>+</sup> T lymphocytes. Failure to express CD40L leads to "immunodeficiency with hyper-IgM", a disease characterized by failure to produce IgG, IgA and IgE. The soluble form of CD40L is an 18kDa protein comprising the entire TNF homologous region of CD40L and is generated in vivo by an intracellular proteolytic processing of the full length CD40L. Recombinant murine CD40L is a soluble 16.4 kDa protein containing 149 amino acid residues comprising the receptor binding TNF-like domain of CD40L.

**Biological Activity**

Determined by its ability to induce TNF- $\alpha$  and MIP-1 $\alpha$  production by murine splenocytes. The expected  $ED_{50}$  for this effect is  $< 0.1 \mu\text{g/ml}$ .

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $< 0.1 \text{ ng/} \mu\text{g}$  of protein ( $< 1 \text{ EU/} \mu\text{g}$ ).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

$-20^{\circ}\text{C}$

**Precautions**

Recombinant Murine sCD40 Ligand is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine sCD40 Ligand - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Murine sCD40 Ligand - Images**