

## Recombinant Human sCD40 Ligand/TRAP (rh sCD40L / CD154)

**Synonyms:** soluble CD40-L, Tumor necrosis factor ligand superfamily member 5 (TNFSF5), TNF-related activation protein (TRAP), T cell antigen Gp39

**Introduction:** rh sCD40L is a membrane glycoprotein and differentiation antigen expressed on the surface of T-cells. The sCD40L stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. The sCD40L has been shown to induce cytokine production and tumoricidal activity in peripheral blood monocytes. It also costimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma, TNF-alpha and IL2.

**Description:** rh sCD40L/TRAP produced in *E.Coli* is a non-glycosylated, polypeptide chain containing 149 amino acids and having a molecular mass of 16308 Dalton. The sCD40L/TRAP is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** 0.22 µm filtered solution in 25 mM sodium phosphate, 100 mM NaCl, pH 7.7,

**Solubility:** It is recommended to reconstitute the lyophilized rh sCD40L/TRAP in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rh sCD40L/TRAP although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Reconstituted rh sCD40L/TRAP should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 98.0% as determined by RP-HPLC and by SDS-PAGE.

**Amino Acid Sequence:** MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE ASSQAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFNVT DPSQVSHGTG FTSFGLLKL

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method.

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant stimulation of IL-12 & IL-8 induction by PMB (peripheral mononuclear cells) was found to be 10 - 100 ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	10 µg	Cat.N°	11343343
<i>medium</i>	50 µg	Cat.N°	11343345
<i>large</i>	250 µg	Cat.N°	11343347
<i>x-large</i>	1000 µg	Cat.N°	11343348

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