

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human soluble CD40 Ligand (rHusCD40L)

Catalog Number: PR1093

Source: Escherichia coli

Quantity: 10µg / 100µg / 500µg

Description

CD40 ligand is a 261 amino acid type II transmembrane glycoprotein belonging to the TNF family and can be cleaved into two chains: the CD40 ligand membrane form and CD40 ligand soluble form. It is primarily expressed on activated CD4+ T lymphocytes, and also found in other types of cells, like NK cells, mast cells, basophils and eosinophils. In total CD40 ligand has three binding partners: CD40, $\alpha 5\beta 1$ integrin and $\alpha II\beta 3$. It mediates a range of activities on B cells including induction of activation-associated surface antigen, entry into cell cycle, isotype switching and Ig secretion and memory generation. CD40-CD40L interaction also plays important roles in monocyte activation and dendritic cell maturation.

Molecular Weight:

Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 149 amino acids.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active measured by its ability to bind rhCD74 in a functional ELISA.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.0.

AA Sequence:

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MQKGDQNPQI AAHVISEASS KTTSVLQWAE
KGYTMSNNL VTLENGKQLT VKRQGLYYIY
AQVTFCSNRE ASSQAPFIAS LWLKSPGRFE
RILLRAANTH SSAKPCGQQS IHLGGVFELQ
PGASVFNVT DPSQVSHGTG FTSFGLLKL
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Endotoxin:

Less than 1 EU/µg of rHusCD40L as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-0.3 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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