

TECHNICAL DATA SHEET

Recombinant Mouse sCD40 Ligand (Carrier-free)

Catalog Number: 21-8512

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Mouse sCD40 Ligand (Carrier-free)

DESCRIPTION

CD40 ligand, also known as CD154, is a cell surface glycoprotein expressed on the surface of activated T cells. Binding of CD40 ligand to CD40, expressed on B cells, stimulates B cell proliferation and secretion of all immunoglobulin isotypes.

MOLECULAR MASS

Recombinant murine CD40L is a soluble 16.4 kDa protein containing 149 amino acid residues comprising the receptor binding TNF-like domain of CD40L.

AMINO ACID SEQUENCE

MQRGDEDPQI AAHVVSEANS NAASVLQWAK KGYTMMKSNL VMLENGKQLT VKREGLYYVY TQVTFCSNRE PSSQRPFIVG
LWLKPSSGSE RILLKAANTH SSSQLCEQQS VHLGGVFELQ AGASVFNVT EASQVIHRVG FSSFGLLKL

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

Human, Rat

BIOACTIVITY

Determined by its ability to induce TNF-alpha and MIP-1 alpha production by murine splenocytes. The expected ED₅₀ for this effect is < 0.1 µg/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Apoptosis; Immune System; TNF Superfamily; Allergy; Transplantation; Inflammation; Proliferation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Spriggs MK, Armitage RJ, Strockbine L, Clifford KN, Macduff BM, Sato TA, Maliszewski CR, Fanslow WC. 1992. J Exp Med. 176(6): 1543-50. Mazzei GJ, Edgerton MD, Losberger C, Lecoanet-Henchoz S, Graber P, Durandy A, Gauchat JF, Bernard A, Allet B, Bonnefoy JY. 1995. J Biol Chem. 270(13): 7025-7028.

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