

TECHNICAL DATA SHEET

Recombinant Human sOX40 Ligand (CD252) (Carrier-free)

Catalog Number: 21-7157

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human sOX40 Ligand (CD252) (Carrier-free)

DESCRIPTION

OX40 Ligand (CD252, TNFSF4) is a member of the TNF superfamily that is present on the surface of antigen presenting cells, activated B lymphocytes, and other cells such as endothelial and mast cells. OX40L interacts with OX40 (CD134), a late activation-induced antigen which is expressed primarily on activated T cells. This costimulatory interaction leads to increased proliferation and cytokine production responses of activated T cells, and at the same time enhances proliferation and immunoglobulin secretion by activated B cells. OX40/OX40L ligation promotes survival and expansion of CD4 and CD8 T cells and the OX40/OX40L pathway is an emerging target for immunotherapy studies.

MOLECULAR MASS

Recombinant Human OX40 Ligand consists of 133 amino acids which corresponds to the extracellular TNF homologous domain. By SDS-PAGE, the glycosylated protein migrates at approximately 15.5 - 25.0 kDa.

AMINO ACID SEQUENCE

QVSHRYPRIQ SIKVQFTEYK KEKGFILTSQ KEDEIMKVQN NSVIINCDGF YLISLKGYS QEVNLSLHYQ KDEEPLFQLK KVRVNSLMV ASLTYKDKVY LNVTTDNTSL DDFHVNGGEL ILIHQNPGEF CVL

SOURCE

Hi-5 Insect cells

APPLICATIONS

Bioassay

PURITY

97 %

STORAGE

-20°C

PROTEIN CONTENT

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

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

BIOACTIVITY

Within a concentration range of 30.0-100.0 ng/ml, its ability to stimulate IL-8 production by human PBMC is determined. Results may vary due to differences between PBMC donors.

RESEARCH AREAS

TNF Superfamily, Immune System, Transplantation, Cancer, Inflammation

RECONSTITUTION

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

REFERENCES

Soroosh P, Ine S, Sugamura K and Ishii N. 2006. J Immunol. 176(10): 5976-5987. Ishii N, Takahashi T, Soroosh P and Sugamura K. 2010. Adv Immunol. 105: 63-98. Croft M, So T, Duan W and Soroosh P. 2009. Immunol Rev. 229(1): 173-91. Redmond WL, Weinberg AD. 2007. Crit Rev Immunol. 27(5): 415-436.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.