

TECHNICAL DATA SHEET

# Recombinant Human sTRAIL Receptor 1 (Carrier-free)

Catalog Number: 21-7159

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

#### CONTENTS

Recombinant Human sTRAIL Receptor 1 (Carrier-free)

#### DESCRIPTION

TRAIL Receptor 1 (DR4, TNFRSF10A, CD261, APO2) is a type I transmembrane protein belonging to the TNF receptor superfamily. It contains a cytoplasmic death domain and is one of the four receptors that bind TRAIL to initiate apoptosis. TRAIL R1 mediated apoptosis involves a signaling complex that includes FADD and caspases 8 and 10. TRAIL R1 expression can be induced by NF-kappaB.

#### MOLECULAR MASS

Recombinant Human sTRAIL Receptor 1 is a 22.7 kDa protein consisting of 215 amino acids that correspond to the cysteine-rich extracellular domain.

#### AMINO ACID SEQUENCE

SGTGAAAATP SKVWGSSAGR IEPGGGGRGA LPTSMGQHGP SARARAGRAP GPRPAREASP RLRVHKTFKF VVGVLLQVV PSSAATIKLH  
 DQSIGTQQWE HSPLGELCPP GSHRSERPGA CNRCTEGVGY TNASQQLFAC LPCTACKSDE EERSPCTTTR NTACQCKPGT FRNDNSAEMC  
 RKCSTGCPRG MVKVKDCTPW SDIECVHKES GNGHN

#### SOURCE

E. coli

#### APPLICATIONS

Bioassay

#### PURITY

98 %

#### 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

The expected ED<sub>50</sub> is 0.4-0.5 µg/ml, as determined by measuring its ability to inhibit apoptosis in LN-18 cells.

#### RESEARCH AREAS

TNF Superfamily, Immune System, Cancer, Receptors

#### RECONSTITUTION

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

#### REFERENCES

Zauli G and Secchiero P. 2006. Cytokine Growth Factor Rev. 17(4): 245-257. MacFarlane M. 2003. Toxicol Lett. 139(2-3): 89-97. Ravi R, Bedi GC, Engstrom LW, Zeng Q, Mookerjee B, Gelinas C, Fuchs EJ and Bedi A. 2001. Nat Cell Biol. 3(4): 409-416. Wajant H. 2004. Vitam Horm. 67: 101-132.

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.