

**TECHNICAL DATA SHEET**

**Recombinant Human TL-1A (Carrier-Free)**

Catalog Number: 21-9184

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human TL-1A (Carrier-Free)

**DESCRIPTION**

TL-1A belongs to the TNF superfamily of ligands. It is expressed predominantly in endothelial cells, and to a lesser extent in the placenta, lung, kidney, skeletal muscle, pancreas, small intestine and colon. TL-1A inhibits endothelial cell proliferation and angiogenesis, and has been shown to induce NF-κB activation, caspase activity, and apoptosis in responding cell lines. TL-1A interacts with TNFRSF25/DR3 receptor, but can also bind to a decoy receptor TNFRSF21/DR6.

**MOLECULAR MASS**

Recombinant Human TL-1A is a 22.0 kDa polypeptide of 194 amino acid residues.

**AMINO ACID SEQUENCE**

QLRAQGEASV QFQALKGQEF APHQVYAP LRADGDKPRA HLTVVVRQTPT QHFKNQFPAL HWEHELGLAF TKNRMNYTNK FLLIPESGDY  
 FIYSQVTFRG MTSECSEIRQ AGRPNKPDSI TVVITKVTD S YPEPTQLLMG TKSVCVGSN WFQPIYLGAM FSLQEGDKLM VNVSDISLVD YTKEDKTFFG  
 AFLL

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

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

**ENDOTOXIN LEVEL**

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

**AUTHENTICITY**

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

**CROSS REACTIVITY**

Human

**BIOACTIVITY**

Determined by its ability to stimulate IFN-gamma production by human PBMC using a concentration range of 10.0-100.0 ng/ml. Note: Results may vary with PBMC donors.

**RESEARCH AREAS**

TNF Superfamily, Apoptosis, Angiogenesis/Cancer

**RECONSTITUTION**

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

**REFERENCES**

McLaren, J.E. The TNF-like protein 1A-death receptor 3 pathway promotes macrophage foam cell formation in vitro. 2010. The Journal of Immunology; 184 (10):5827-34. Hedl, M. A TNFSF15 disease-risk polymorphism increases pattern-recognition receptor-induced signaling through caspase-8-induced IL-1. 2014. Proceedings of the National Academy of Sciences of the USA; 111(37):13451-6.

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.