

# TL-1A, human recombinant

<b>CATALOG #:</b>	7219-10	10 µg
	7219-50	50 µg
<b>ALTERNATE NAMES:</b>	TNFSF15, VEGI	
<b>SOURCE:</b>	E. Coli	
<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	22.0 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1 EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Tris, pH 8.5, and 75 mM Arginine.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

TL-1A belongs to the TNF superfamily of ligands. It is expressed predominantly in endothelial cells, and to a lesser extent in placenta, lung, kidney, skeletal muscle, pancreas, small intestine and colon. TL-1A inhibits endothelial cell proliferation and angiogenesis, and has been shown to induce NFκB 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. Recombinant human TL-1A is a 22.0 kDa polypeptide of 194 amino acid residues.

**AMINO ACID SEQUENCE:**

QLRAQGEASV QFQALKGQEF APShQQVYAP LRADGDKPRA HLTVVRQTPT  
QHfKNQFPAL HWEHELGLAF TKNRMNYTNK FLLIPESGDY FIYSQVTFRG  
MTSECSEIRQ AGRPNKPDSI TVVITKVTDs YPEPTQLLMG TKSvCEVGSN  
WFQPIYLGAM FSLQEGDKLM VNVSDISLVD YTKEDKTFfG AFLL

**BIOLOGICAL ACTIVITY:**

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

**RELATED PRODUCTS:**

- DR6 Antibody (**Cat. No. 3216-100**)
- DR6 Antibody (**Cat. No. 3216R-100**)
- DR6 Blocking Peptide (**Cat. No. 3216BP-50**)
- DR3 (Death Receptor 3/Apo3) Antibody (**Cat. No. 3057-100**)
- DR3/Apo3 Antibody (**Cat. No. 3057R-100**)
- DR3/Apo3 Blocking Peptide (**Cat. No. 3057RBP-50**)
- TWEAK, human recombinant (**Cat. No. 4360-10, -1000**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**