

## TL-1A Human E. coli

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RBG10323005	(5 µg)
<b>Species:</b> Human	RBG10323020	(20 µg)
<b>Other names:</b> TNFSF15, VEGI	RBG10323100	(100 µg)

### 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- $\kappa$ B 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.

### Research topic

Apoptosis, Cardiovascular disease, Coronary artery disease

### Amino Acid Sequence

QLRAQGEASV QFQALKGQEF APHQQVYAP LRADGDKPRA HLTVVRQTPT QHFKNQFPAL HWEHELGLAF TKNRMNYTNK  
 FLLIPESGDY FIYSQVTFRG MTSECSEIRQ AGRPNKPDSI TVVITKVTD S YPEPTQLLMG TKSVCEVGSN WFQPIYLGAM  
 FSLQEGDKLM VNVSDISLVD YTKEDKTFFG AFLL

### Source

E. coli

### Purity

98%

### Biological Activity

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

### Endotoxin

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

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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.

### Storage, Stability/Shelf Life

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