

Recombinant Human TNFSF15

Catalog # FL076

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 96% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/ μ g of rHuTL-1A/TNFSF15 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Human
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to induce apoptosis using human TF-1 cells is less than 20 ng/ml, corresponding to a specific activity of $\geq 5.0 \times 10^4$ IU/mg
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, with 150 mM NaCl, 0.02% (v/v) Tween-20, pH 7.4 .
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Accession #	O95150 Leu72-Leu251
Amino acid sequence	LKGQEFAPSHQVYAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWEHELGLAFTKNRMNYTNKFLIPESGDYFIYSQVTFRGMTSECSEIRQAGRPNKPSITVVITKVTDSYPEPTQLLMGTKSVCVEGNSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDYTKEDKTFFGAFLL
Molecular weight	Approximately 20.5 kDa, a single non-glycosylated polypeptide chain containing 180 amino acids.
Synonyms	VEGI, VEGI192A, VEGITNF ligand-related molecule 1
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored $\leq -20^\circ\text{C}$. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Human TNFSF15 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

TL-1A is a type II transmembrane protein belonging to the TNF superfamily and has been designated TNF superfamily member 15 (TNFSF15). TL-1A is predominantly expressed in endothelial cells and its expression is inducible by TNF- α and IL-1 α . TL-1A binds with high affinity to death receptor 3 (DR3), known as TNFRSF25. Depending on the cell context, ligation of DR3 by TL-1A can trigger one of two signaling pathways, activation of the transcription factor NF- κ B, or activation of caspases and apoptosis. Recombinant Human TL-1A/TNFSF15 is a 20.5kDa globular protein containing 180 amino acid residues.

