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Human recombinant TL1A (TNF-like ligand 1A) protein, AF

Catalog Number: PROTO95150-5

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Overview

Product Name	Human recombinant TL1A (TNF-like ligand 1A) protein, AF
Description	TL1A also known as VEGI and TNFSF15, which belongs to TNF ligand superfamily. TL1A is a 28 kDa type II membrane protein containing 251 residues that predominantly expressed in endothelial cells. TL1A is able to promote NFkappaB activation in cells by interacting with DR3. Besides, TL1A can also induces cell apoptosis through activating caspases. Additionally, the responsiveness of IL-2 from activated T cells has been shown to induce by TL1A treatment.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 22.95 kDa. The protein migrates as 24 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce TF-1 cells proliferation. The ED_{50} for this effect is <0.2 ng/mL.

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Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MQLRAQGEACVQFQALKGQEFAPSHQQVYAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWEHELGLAFTKNRMNYTNKFLLIPESGDYFIYSQ
VTFRGMTSECSEIRQAGRPNKPDSITVVITKVTDSYPEPTQLLMGTKSVCEVGSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDYTKEDKTFFGAFLL
with polyhistidine tag at the C-terminus

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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