



**LD Biopharma, Inc.**  
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## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human TNFRSF25 Protein  
**Catalog Number:** hRP-2147  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

The protein encoded by human tumor necrosis factor receptor superfamily member 25 gene is a member of the TNF-receptor superfamily. This receptor is expressed preferentially in the tissues enriched in lymphocytes, and it may play a role in regulating lymphocyte homeostasis. This receptor has been shown to stimulate NF-kappa B activity and regulate cell apoptosis. The signal transduction of this receptor is mediated by various death domain containing adaptor proteins. Knockout studies in mice suggested the role of this gene in the removal of self-reactive T cells in the thymus. Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported, most of which are potentially secreted molecules. The alternative splicing of this gene in B and T cells encounters a programmed change upon T-cell activation, which predominantly produces full-length, membrane bound isoforms, and is thought to be involved in controlling lymphocyte proliferation induced by T-cell activation.

Full-length extracellular domain of human TNFRSF25 protein cDNA (25 – 199aa, Isoform-II ) was constructed with codon optimization gene synthesis and expressed with a human N-terminalT7-His-TEV cleavage site Tag (29aa) fusion. This protein was expressed in E. coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

**Gene Symbol:** TNFRSF25 (APO3, DDR3, DR3, TNFRSF12, WSL, WSL1; TRAMP; LARD)  
**Accession Number:** NP\_003781  
**Species:** Human  
**Size:** 25 µg / Vial  
**Composition:** 0.25 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.  
**Storage:** In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.



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## Key References

Bittner S, et al., *Soluble TL1A is sufficient for activation of death receptor 3*. FEBS J. 283 (2), 323-336 (2016)

Cavallini C, et al., *Expression and function of the TL1A/DR3 axis in chronic lymphocytic Leukemia*. Oncotarget 6 (31), 32061-32074 (2015)

Slebioda TJ, et al., *TL1A as a Potential Local Inducer of IL17A Expression in Colon Mucosa of Inflammatory Bowel Disease Patients*. Scand. J. Immunol. 82 (4), 352-360 (2015)

## Applications

1. May be used for in vitro study TNFRSF25 mediated Dendritic / T cell activation regulation study with this protein either as soluble factor or as coating matrix protein.
2. May be used for protein-protein interaction assay.
3. Potential anti-cancer therapeutic protein, such as utilized as T cell activation protein both in vitro and in vivo.
4. As immunogen for specific antibody production.

## Quality Control

Purity: > 90% by SDS-PAGE.

## Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHENLYFQGGEFQGGTRSPRCDGDFHKKIGLFCCRGCPAGHYLKA  
PCTEPCGNSTCLVCPQDTFLAWENHHNSECARCQACDEQASQVALENC SAVADTRCGCKPGWFV  
ECQVSQCVSSSPFYCQPCLDCGALHRHTRLLCSRRTDCGTCLPGFYEHGDGCVSCPTSTLGSC  
PERCAAVCGWRQ