

## **Product datasheet for TP721145M**

## OriGene Technologies, Inc.

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## TNFSF9 (NM\_003811) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Human tumor necrosis factor (ligand) superfamily, member 9

(TNFSF9)

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

Arg71-Glu254

Tag: C-His

Predicted MW: 20.6 kDa

Concentration: lot specific

**Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** Provided lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl

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

**Reconstitution Method:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the

lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage: Store at -80°C.

**Stability:** Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

**RefSeq:** NP 003802

Locus ID: 8744

UniProt ID: <u>P41273</u>, <u>A0A0U5|810</u>

RefSeq Size: 1680

Cytogenetics: 19p13.3

RefSeq ORF: 762

**Synonyms:** 4-1BB-L; CD137L; TNLG5A





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**Summary:** 

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction.[provided by RefSeq, Oct 2008]

Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Cytokine-cytokine receptor interaction