

Bioactive

TNFSF9 (Human) Recombinant Protein

Catalog # P9946

Size 100 ug, 20 ug

Specification

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|----------------------|--|
| Regulatory Status | RUO grade |
| Product Description | Human TNFSF9 recombinant protein with His tag at the C-terminus expressed in <i>Escherichia coli</i> . |
| Host | Escherichia coli |
| Theoretical MW (kDa) | Calculated MW: 20.4 |
| Form | Lyophilized |
| Preparation Method | <i>Escherichia coli</i> expression system |
| Purity | > 95% by SDS-PAGE |
| Endotoxin Level | < 0.1 EU/ug |
| Activity | The ED ₅₀ for this effect is 1-5 ng/mL, measured by its ability to induce IL-8 secretion in human PBM Cs. |
| Recommend Usage | SDS-PAGE The optimal working dilution should be determined by the end user. |
| Storage Buffer | Lyophilized from PBS, pH 7.4. Reconstitute the lyophilized protein in sterile H ₂ O to a concentration of at least 200 ug/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolution. Please use the protein within one month after reconstitution. |
| Storage Instruction | Store at -20°C for 12 months in lyophilized state. After reconstitution with deionized water, store at -20 or -80°C for 1 month. Aliquot to avoid repeated freezing and thawing. |

Applications

- Functional Study

- SDS-PAGE

Gene Info — TNFSF9

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|--------------------|---|
| Entrez GeneID | 8744 |
| Gene Name | TNFSF9 |
| Gene Alias | 4-1BB-L, CD137L |
| Gene Description | tumor necrosis factor (ligand) superfamily, member 9 |
| Omim ID | 606182 |
| Gene Ontology | Hyperlink |
| Gene 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. |
| Other Designations | homolog of mouse 4-1BB-L receptor 4-1BB ligand |

Pathway

- [Cytokine-cytokine receptor interaction](#)

Disease

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)

- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Leukemia](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)