



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### TNFSF9 (Human) Recombinant Protein

**Catalog Number:** P9219

**Regulation Status:** For research use only (RUO)

**Product Description:** Human TNFSF9 recombinant protein expressed in *Escherichia coli*.

**Sequence:**

REGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPL  
SWYSDPGLAGVSLTGGLSYKEDTKELVVAKAGVYYVF  
FQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALAL  
TVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHT  
EARARHAWQLTQGATVGLFRVTPEIPAGLPSRSE

**Host:** *Escherichia coli*

**Theoretical MW (kDa):** 19.5

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Lyophilized

**Preparation Method:** *Escherichia coli* expression system

**Purification:** chromatographic

**Purity:** > 97% as determined by (a) RP-HPLC.(b) SDS-PAGE.

**Activity:** ED<sub>50</sub> is 5-10 ng/mL, measured by the dose-dependent stimulation of IL-8 production by human PBMC a chemotaxis bioassay using human MCF-7 cells, corresponding to a specific activity of 1.0 x 10<sup>5</sup>-2.0 x 10<sup>5</sup> IU/mg.

**Storage Buffer:** Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH<sub>2</sub>O to 100 ug/mL.

**Storage Instruction:** Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4°C for 2-7 days and should be stored at -20°C to -80°C for long term storage. Avoid repeated freeze/thaw cycles.

**Entrez GeneID:** 8744

**Gene Symbol:** TNFSF9

**Gene Alias:** 4-1BB-L, CD137L

**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]