

Bioactive

## TNFRSF9 (Human) Recombinant Protein

Catalog # P9215

Size 20 ug

### Specification

<b>Product Description</b>	Human TNFRSF9 recombinant protein expressed in <i>Escherichia coli</i> .
<b>Sequence</b>	This sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Arg-Thr-Arg
<b>Host</b>	<i>Escherichia coli</i>
<b>Theoretical MW (kDa)</b>	17.7
<b>Form</b>	Lyophilized
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purification</b>	chromatographic
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Activity</b>	The activity was determined by the inhibition of 4-1BB ligand mediated stimulation of IL-8 production by human PBMC. Results: 90% inhibition using 1 g for both 4-1BB ligand and 4-1BB receptor.
<b>Storage Buffer</b>	Protein (1 mg/mL) was lyophilized with no additives. Reconstitute the lyophilized powder in ddH <sub>2</sub> O to 100 ug/mL.
<b>Storage Instruction</b>	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 it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

### Applications

- Functional Study

## Gene Info — TNFRSF9

Entrez GeneID [3604](#)

Protein Accession# [Q07011](#)

Gene Name TNFRSF9

Gene Alias 4-1BB, CD137, CDw137, ILA, MGC2172

Gene Description tumor necrosis factor receptor superfamily, member 9

Omim ID [602250](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contributes to the clonal expansion, survival, and development of T cells. It can also induce proliferation in peripheral monocytes, enhance T cell apoptosis induced by TCR/CD3 triggered activation, and regulate CD28 co-stimulation to promote Th1 cell responses. The expression of this receptor is induced by lymphocyte activation. TRAF adaptor proteins have been shown to bind to this receptor and transduce the signals leading to activation of NF-kappaB. [provided by RefSeq]

**Other Designations** 4-1BB ligand receptor|CD137 antigen|OTTHUMP00000001360|OTTHUMP00000044294|T cell antigen ILA|homolog of mouse 4-1BB|induced by lymphocyte activation (ILA)|interleukin-activated receptor, homolog of mouse Ly63|receptor protein 4-1BB

## Pathway

- [Cytokine-cytokine receptor interaction](#)

## Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)

- [Hodgkin Disease](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)