Bioactive

TNFRSF9 (Human) Recombinant Protein

Catalog # P9215 Size 20 ug

Specification

Product Description	Human TNFRSF9 recombinant protein expressed in *Escherichia coli*.
Sequence	ThesequenceofthefirstfiveN-terminalaminoacidswasdeterminedandwasfoundtobeMet-Glu-Arg-Thr-Arg
Host	Escherichia coli
Theoretical MW (kDa)	17.7
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	chromatographic
Purity	> 90% as determined by SDS-PAGE.
Activity	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.
Storage Buffer	Protein (1 mg/mL) was lyophilized with no additives. Reconstitute the lyophilized powder in ddH_2O 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 it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

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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 co ntributes to the clonal expansion, survival, and development of T cells. It can also induce proliferati on 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 rece ptor 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 a ntigen ILA|homolog of mouse 4-1BB|induced by lymphocyte activation (ILA)|interleukin-activated r eceptor, 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

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- Hodgkin Disease
- Lymphoproliferative Disorders
- Multiple Myeloma
- Occupational Diseases
- Waldenstrom Macroglobulinemia
- Werner syndrome

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