

Bioactive

TNFSF9 (Human) Recombinant Protein

Catalog # P7010 Size 100 ug

Applications



75 -63 -48 -35 -25 -

17.

Functional Study

The ED_{50} for this effect is 1-5 ng/mL, measured by the induction of IL-8 secretion in human PBMCs.

Specification	
Product Description	Human TNFSF9 recombinant protein with polyhistidine tag at the C-terminus expressed in <i>Escherich ia coli</i> .
Sequence	MREGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTGGLSYKEDTKEL VVAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAGAAALALTVDLPPASSEARNSAF GFQGRLLHLSAGQRLGVHLHTEARARHAWQLTQGATVLGLFRVTPEIPAGLPSPRSE
Host	Escherichia coli
Form	Lyophilized
Preparation Method	Escherichia coli expression system

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Product Information

Purification	Ni-NTA chromatography
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.1 EU per 1 ug of the protein by the LAL method.
Activity	Measured by the induction of IL-8 secretion in human PBMCs. The ED 50 for this effect is 1-5 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store at -20°C, lyophilized protein is stable for 1 year. After reconstitution with deionized water, store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

• Functional Study

The ED_{50} for this effect is 1-5 ng/mL, measured by the induction of IL-8 secretion in human PBMCs.

• SDS-PAGE

Gene Info — TNFSF9

Entrez GenelD	8744
Gene Name	TNFSF9
Gene Alias	4-1BB-L, CD137L
Gene Description	tumor necrosis factor (ligand) superfamily, member 9
Omim ID	<u>606182</u>
Gene Ontology	<u>Hyperlink</u>



Product Information

	ne is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interactio n
	to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytok ine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytoki
	T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expresse d upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown
	nd its receptor are involved in the antigen presentation process and in the generation of cytotoxic
Gene Summary	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) lig and 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 a

Pathway

• Cytokine-cytokine receptor interaction

Disease

- Birth Weight
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hematologic Diseases
- Hodgkin Disease
- Leukemia
- Lymphoproliferative Disorders
- <u>Meningeal Neoplasms</u>
- Meningioma
- Multiple Myeloma
- Occupational Diseases
- Ovarian Neoplasms
- Waldenstrom Macroglobulinemia



Product Information

• Werner syndrome