

Recombinant Human TNFSF9 Protein (Arg71-Glu254), HlgG1 Fc-tagged, Biotinylated

Cat. No. TNFSF9-1157H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF9 Protein (NP_003802.1) (Arg71-Glu254) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the N-terminus. The purified protein was biotinylated in vitro.
Species	Human
Source	HEK293
ProteinLength	Arg71-Glu254
Description	4-1BBL is the high affinity ligand of 4-1BB, also known as CD137L or TNFSF9. It is shown to be a type II surface glycoprotein belonging to the TNF superfamily. Expression of 4-1BBL is restricted to APCs, such as dendritic cells, macrophages, and activated B cells. Members of the TNF-TNF receptor superfamily have been shown to play critical roles in regulating cellular activation, differentiation and apoptosis. Several studies have reported that 4-1BBL/4-1BB interaction provided a co-stimulatory signal to T cells, and increased T cell proliferation and cytokines production. In addition, 4-1BBL is involved in cancers, infectious diseases and autoimmune diseases.
Predicted N Terminal	Glu
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant human TNFSF9 consists of 444 amino acids and predicts a molecular mass of 47.9 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	TNFSF9 tumor necrosis factor (ligand) superfamily, member 9 [Homo sapiens]
Official Symbol	TNFSF9
Synonyms	TNFSF9; 4 1BB L; homolog of mouse 4 1BB L; receptor 4 1BB ligand; 4-1BBL; 4-1BB ligand; CD137L; 4-1BB-L;

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Gene ID	8744
mRNA Refseq	NM_003811
Protein Refseq	NP_003802
MIM	606182
UniProt ID	P41273

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