Animal-Free 4-1BBL/TNFSF9 Protein, Human (His)

Cat. No.:	HY-P700012AF
Synonyms:	CD137L; TNLG5A; TNFSF9
Species:	Human
Source:	E. coli
Accession:	P41273 (M70-EE254)
Gene ID:	8744
Molecular Weight:	Approximately 20.38 kDa

PROPERTIES

AA Sequence	M R E G P E L S P D D P A G L L D L R Q G M F A Q L V A Q N V L L I D G P L S W Y S D P G L A G V S L T G G L S Y K E D T K E L V V A K A G V Y Y V F F Q L E L R R V V A G E G S G S V S L A L H L Q P L R S A A G A A A L A L T V D L P P A S S E A R N S A F G F Q G R L L H L S A G Q R L G V H L H T E A R A R H A W Q L T Q G A T V L G L F R V T P E I P A G L P S P R S E
Biological Activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED_{50} for this effect is 1-5 ng/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The 4-1BBL (TNFSF9) protein is a cytokine with significant immunomodulatory functions, binding to the TNFRSF9 receptor. Its interaction induces the proliferation of activated peripheral blood T-cells, suggesting a role in T-cell activation and immune response amplification. Additionally, 4-1BBL may be involved in activation-induced cell death (AICD), a process that regulates the survival and homeostasis of activated immune cells. Furthermore, the protein might play a role in mediating cognate interactions between T-cells and B-cells/macrophages, contributing to immune cell communication and coordination. Structurally, 4-1BBL forms homotrimers, indicating its organization into trimeric complexes. These diverse

	functions underscore the pivotal role of 4-1BBL in immune regulation and intercellular communication within the immune system.

Caution: Product has not been fully validated for medical applications. For research use only.

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