

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

Cat. No.:	HY-P700518
Synonyms:	Tumor necrosis factor ligand superfamily member 9; CD137L; 4-1BB Ligand
Species:	Human
Source:	E. coli
Accession:	P41273 (P52-E254)
Gene ID:	8744
Molecular Weight:	25.3 kDa

PROPERTIES

AA Sequence	<p>P W A V S G A R A S P G S A A S P R L R E G P E L S P D D P A G L L D L R Q G M</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>R S E</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	<p>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</p>
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system.

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

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