

4-1BBL/TNFSF9 Protein, Human (HEK293, hFc-Myc)

Cat. No.:	HY-P700435
Synonyms:	Tumor necrosis factor ligand superfamily member 9; CD137L; 4-1BB Ligand
Species:	Human
Source:	HEK293
Accession:	P41273 (R71-E254)
Gene ID:	8744
Molecular Weight:	48.0 kDa

PROPERTIES

AA Sequence	<pre> REGPELSPDD PAGLLDLRQG MFAQLVAQNV LLIDGPLSWY SDPGLAGVSL TGGLSYKEDT KELVVAKAGV YYVFFQLELR RVVAGEGSGS VSLALHLQPL RSAAGAAALA LTVDLPPASS EARNSAFGFQ GRLHLHSAGQ RLGVHLHTEA RARHAWQLTQ GATVVLGLFRV TPEIPAGLPS PRSE </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
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 system.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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