

4-1BB/TNFRSF9 Protein, Mouse (HEK293, C-hFc)

Cat. No.:	HY-P7447A
Synonyms:	rMu4-1BB/TNFRSF9, C-Fc; CD137; 4-1 BB; TNFRSF-9
Species:	Mouse
Source:	HEK293
Accession:	P20334 (V24-L187)
Gene ID:	21942
Molecular Weight:	approximately 58.72 kDa

PROPERTIES

AA Sequence	<p>V Q N S C D N C Q P G T F C R K Y N P V C K S C P P S T F S S I G G Q P N C N I</p> <p>C R V C A G Y F R F K K F C S S T H N A E C E C I E G F H C L G P Q C T R C E K</p> <p>D C R P G Q E L T K Q G C K T C S L G T F N D Q N G T G V C R P W T N C S L D G</p> <p>R S V L K T G T T E K D V V C G P P V V S F S P S T T I S V T P E G G P G G H S</p> <p>L Q V L</p>
Biological Activity	Measured by its ability to block 4-1BBL-induced IL-2 secretion by mouse CTLL-2 cells. The ED ₅₀ for this effect is 0.603 µg/mL in the presence of 10 µg/mL anti-CD3, corresponding to a specific activity is 1.66×10 ³ U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	4-1BB/TNFRSF9 Protein, functioning as the receptor for TNFSF9/4-1BBL, plays a pivotal role in conveying signals that augment CD8(+) T-cell survival, cytotoxicity, and mitochondrial activity, thereby contributing to enhanced immunity against viruses and tumors. It predominantly exists as a homodimeric structure, with the possibility of monomeric states. The association with key signaling molecules, including p56-LCK and interactions with TRAF1, TRAF2, and TRAF3, underscores
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its importance in mediating intracellular pathways essential for promoting immune responses and regulatory functions.

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

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