

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

Cat. No.:	HY-P700160AF
Synonyms:	41BB Ligand; 4-1BB Ligand; 4-1BBL; CD137L; TNFSF9
Species:	Mouse
Source:	E. coli
Accession:	P41274 (R104-T211)
Gene ID:	21950
Molecular Weight:	Approximately 23.91 kDa

### PROPERTIES

AA Sequence	<p>           M R T E P R P A L T    I T T S P N L G T R    E N N A D Q V T P V    S H I G C P N T T Q            Q G S P V F A K L L    A K N Q A S L C N T    T L N W H S Q D G A    G S S Y L S Q G L R            Y E E D K K E L V V    D S P G L Y Y V F L    E L K L S P T F T         </p>
Biological Activity	Measure by its ability to induce IL-2 secretion in mouse T cells in the presence of the anti-CD3 antibody. The ED <sub>50</sub> for this effect is <0.05 µg/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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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	The 4-1BBL/TNFSF9 protein is a cytokine that specifically binds to TNFRSF9, triggering the proliferation of activated peripheral blood T-cells. It is believed to be involved in activation-induced cell death (AICD) and may also contribute to the cognate interactions between T-cells and B-cells/macrophages. This protein functions as a homotrimer, further enhancing its biological activity.
------------	---

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA