



# Certificate of Analysis

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

Cat. No.:	HY-P7447A
Batch No.:	262627
Species:	Mouse
Source:	HEK293
Tag:	C-hFc
Accession:	P20334 (V24-L187)
Gene ID:	21942
Molecular Weight:	approximately 58.72 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	<1 EU/μg
Biological Activity	Measured by its ability to block 4-1BBL-induced IL-2 secretion by mouse CTLL-2 cells. The ED <sub>50</sub> 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 <sup>3</sup> U/mg.	0.603 μg/mL
Appearance	Lyophilized powder.	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> 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. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

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

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