



# Certificate of Analysis

## 4-1BBL/TNFSF9 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7446
Batch No.:	258836
Species:	Mouse
Source:	HEK293
Tag:	N-10*His
Accession:	P41274 (R104-E309)
Gene ID:	21950
Molecular Weight:	approximately 38.72 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE	97.96%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its ability to co-stimulate IL-2 secretion by mouse T cells in the presence of anti-CD3. The ED <sub>50</sub> for this effect is 2.149 ng/mL, corresponding to a specific activity is 4.65×10 <sup>5</sup> U/mg.	PASS
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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