



Certificate of Analysis

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

Cat. No.:	HY-P700012AF
Batch No.:	268784
Species:	Human
Source:	E. coli
Tag:	C-His
Accession:	P41273 (M70-EE254)
Gene ID:	8744
Molecular Weight:	Approximately 20.38 kDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.	<0.1 EU/µg
Biological Activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED ₅₀ for this effect is 1-5 ng/mL	1-5 ng/mL
Appearance	Lyophilized powder	
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. 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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