



# Certificate of Analysis

## TNF-alpha/TNFSF2 Protein, Rat (P.pastoris)

Cat. No.: HY-P7108  
 Batch No.: 34189  
 Species: Rat  
 Source: *P. pastoris*  
 Tag: Tag Free  
 Accession: P16599 (L80-L235)  
 Gene ID: 24835  
 Molecular Weight: Approximately 17.4 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<0.2 EU/μg, determined by LAL method.	PASS
Biological Activity	The ED <sub>50</sub> is <50 pg/mL as measured by mouse L-929 cells, corresponding to a specific activity of >2.0 × 10 <sup>7</sup> units/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 (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.	

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

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