



Certificate of Analysis

Leptin Protein, Rat (His)

Cat. No.:	HY-P7233A
Batch No.:	380720
Species:	Rat
Source:	<i>E. coli</i>
Tag:	N-6*His
Accession:	P50596 (V22-C167)
Gene ID:	25608
Molecular Weight:	Approximately 17 kDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE	≥98.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Fully biologically active determined by the dose dependent proliferation of MCF7 cells. The ED ₅₀ for this effect is ≤14 ng/mL, corresponding to a specific activity is ≥7.14×10 ⁴ units/mg.	13.42 ng/mL
Appearance	Lyophilized powder	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ 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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