



# Certificate of Analysis

## Osteopontin/OPN Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P71786
Batch No.:	257923
Species:	Mouse
Source:	<i>P. pastoris</i>
Tag:	N-6*His
Accession:	P10923 (L17-S290)
Gene ID:	20750
Molecular Weight:	Approximately 60 kDa in reducing SDS-PAGE due to glycosylation.

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 90% as determined by reducing SDS-PAGE.	≥95.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of HEK293 human embryonic kidney cells. When $1 \times 10^5$ cells/well are added to Recombinant Rat Osteopontin/OPN coated plates, cell adhesion is enhanced in a dose dependent manner after 1 hour incubation at 37 °C. The $ED_{50}$ for this effect is 0.5101 μg/mL, corresponding to a specific activity is $1.960 \times 10^4$ units/mg.	0.5101 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.	
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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