



# Certificate of Analysis

## Animal-Free BMP-4 Protein, Mouse (His)

Cat. No.:	HY-P700163AF
Batch No.:	268807
Species:	Mouse
Source:	E. coli
Tag:	C-His
Accession:	P21275 (K303-R408)
Gene ID:	12159
Molecular Weight:	Approximately 12.88 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 alkaline phosphatase production by ATDC5 cells. The ED <sub>50</sub> for this effect is <10 ng/mL. The specific activity of recombinant mouse BMP-4 is >1 x 10 <sup>5</sup> IU/mg	<10 ng/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. 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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