



Mouse Bone morphogenetic protein 7,BMP-7 ELISA Kit

Product Code	CSB-E08125m
Abbreviation	BMP7
Protein Biological Process 1	Developmental Protein
Target Name	bone morphogenetic protein 7
Uniprot No.	P23359
Alias	OP-1, osteogenic protein 1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Chondrogenesis
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.625 pg/mL-40 pg/mL
Sensitivity	0.156 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	Bmp7
Tag Info	quantitative
Protein Description	Sandwich
Description	<p>This Mouse BMP7 ELISA Kit was designed for the quantitative measurement of Mouse BMP7 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 pg/mL-40 pg/mL and the sensitivity is 0.156 pg/mL .</p>
Target Details	<p>The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in</p>



embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse BMP-7 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	90
1:1	Range %	87-92
	Average %	103
1:2	Range %	98-106
	Average %	92
1:4	Range %	89-97
	Average %	100
1:8	Range %	97-103

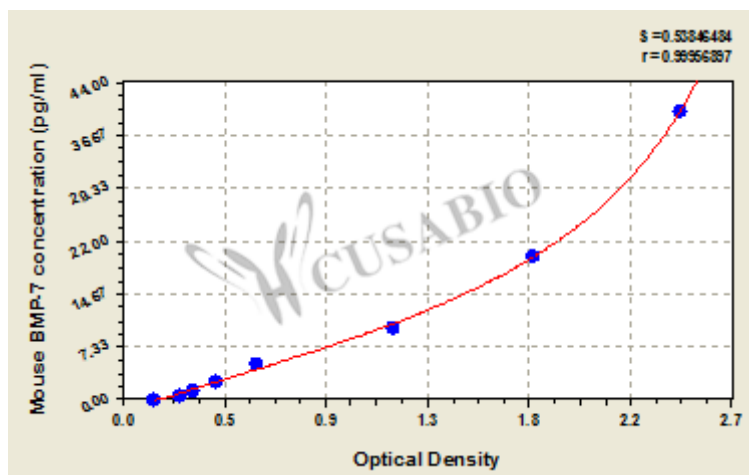
Recovery

The recovery of mouse BMP-7 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	91-96
EDTA plasma (n=4)	95	93-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
40	2.449	2.440	2.445	2.295
20	1.788	1.818	1.803	1.653
10	1.196	1.181	1.189	1.039
5	0.584	0.604	0.594	0.444
2.5	0.424	0.415	0.420	0.270
1.25	0.321	0.312	0.317	0.167
0.625	0.272	0.255	0.264	0.114
0	0.152	0.148	0.150	?

Msds

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