



Human Bone morphogenetic protein 3(BMP3) ELISA kit

Product Code	CSB-EL002739HU
Abbreviation	BMP3
Protein Biological Process 1	Developmental Protein
Target Name	bone morphogenetic protein 3
Uniprot No.	P12645
Alias	BMP-3A, bone morphogenetic protein 3 (osteogenic) bone morphogenetic protein-3 osteogenin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Chondrogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	BMP3
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human BMP3 ELISA Kit was designed for the quantitative measurement of Human BMP3 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	BMP3 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein, also known as osteogenin, induces bone formation.
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 human BMP3 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 %	88
1:1	Range %	82-91
	Average %	102
1:2	Range %	97-106
	Average %	94
1:4	Range %	87-98
	Average %	93
1:8	Range %	86-97

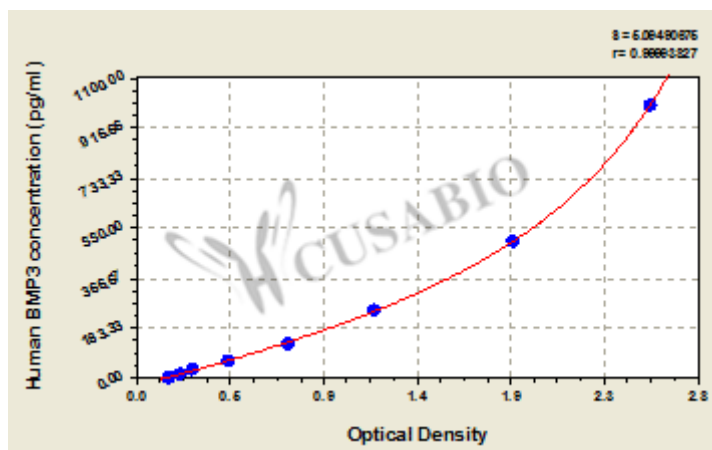
Recovery

The recovery of human BMP3 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)	104	99-108
EDTA plasma (n=4)	92	87-96

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
1000	2.512	2.633	2.573	2.399
500	1.834	1.948	1.891	1.717
250	1.176	1.218	1.197	1.023
125	0.756	0.774	0.765	0.591
62.5	0.463	0.473	0.468	0.294
31.2	0.289	0.296	0.293	0.119
15.6	0.225	0.235	0.230	0.056
0	0.173	0.175	0.174	?

Msds

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