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Datasheet for ABIN6719808
BMP7 ELISA Kit

Overview

Quantity:	1 kit
Target:	BMP7
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Bone, Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: BMP 7, Bone morphogenetic protein 7, Eptotermin alfa, OP 1, OP1, Osteogenic protein 1, OTTHUMP00000166094</p> <p>Background: Bone morphogenetic protein 7 or BMP7(also known as osteogenic protein-1 or OP-1) is a protein that in humans is encoded by the BMP7 gene.The protein encoded by this gene is a member of the TGF-beta superfamily. Like other members of the bone morphogenetic protein family of proteins, it plays a key role in the transformation of mesenchymal cells into bone and cartilage. It is inhibited by noggin and a similar protein, chordin, which are expressed in the Spemann-Mangold Organizer. BMP7 may be involved in bone homeostasis. It is</p>

Product Details

expressed in the brain, kidneys and bladder.

Gene Name: BMP7

Production: Natural and recombinant human BMP-7. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: S293-H431

Target Details

Target: BMP7

Alternative Name: BMP-7 ([BMP7 Products](#))

Gene ID: 655

NCBI Accession: [NP_001710](#)

UniProt: [A8K571](#)

Pathways: [Steroid Hormone Mediated Signaling Pathway](#), [Stem Cell Maintenance](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human BMP-7 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human bone tissue, cell culture supernates, serum, plasma((heparin, EDTA) or urine to each empty well. It is recommended that each human BMP-7 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at

Handling

room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.