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BMP7 ELISA Kit



Overview

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

Product Details

Product Details	
Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: BMP 7, BMP-7, Bone morphogenetic protein 7, Eptotermin alfa, OP 1, OP1, OP1-, Osteogenic protein 2
	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- $\boldsymbol{\beta}$ 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

expressed in the brain, kidneys and bladder.

Gene Name: BMP-7

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

Standard: Expression system for standard: CHO, Immunogen sequence: S292-H430

Target Details

Target:	BMP7
Alternative Name:	BMP-7 (BMP7 Products)
Gene ID:	85272
UniProt:	G3V6W8
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 rat 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 rat bone tissue, cell culture supernates, serum or plasma((heparin, EDTA) to each empty well. It is recommended that each rat 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 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.