Datasheet for KOA0871

Rat BMP-7 ELISA Kit

Overview

Description:	Rat BMP-7 AccuSignal ELISA Kit - KOA0871
Item No.:	KOA0871
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

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-β 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.
Synonyms:	BMP 7, BMP7, BMP-7, Bone morphogenetic protein 7, Eptotermin alfa, OP 1, OP1, OP1-, Osteogenic protein 2
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	BMP-7
Reactivity:	Rat
Immunogen:	Expression system for standard: CHO; Immunogen sequence: S292-H430
Purity/Specificity:	Natural and recombinant rat BMP-7. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - G3V6W8 • NCBI - 85272 • GeneID - 85272 • KOA0871 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 09/01/2019 -20° C - 03/02/2020

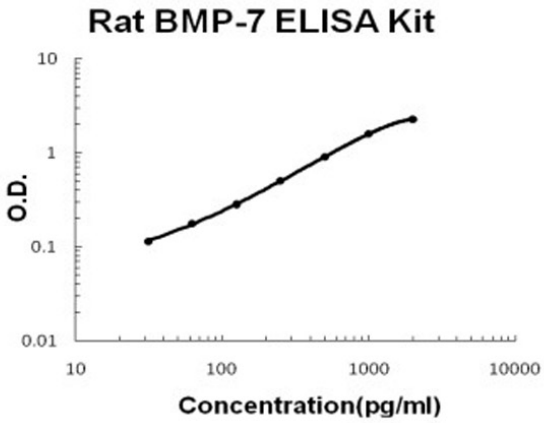
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.
Expiration:	See kit insert for complete instructions.

Images



ELISA
Rat BMP-7 ELISA Kit standard curve.

Disclaimer

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