

Datasheet for KOA0149**Human BMP-5 ELISA Kit****Overview**

Description:	Human BMP-5 AccuSignal ELISA - KOA0149
Item No.:	KOA0149
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000g/ml

Product Details

Background:	Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene. ^{1,2,3} The protein encoded by this gene is member of the TGFbeta superfamily. Bone morphogenetic proteins are known for their ability to induce bone and cartilage development. BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. It is expressed in the trabecular meshwork and optic nerve head and may have a role in the development and normal function. It is also expressed in the lung and liver. BMP-5 is mapped on human chromosome 6.4 The standard used in this kit is recombinant BMP-5 with the monomer molecular mass of 18KDa.
Synonyms:	BMP-5, Bmp5, BMP5_HUMAN, Bone morphogenetic protein 5
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000g/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	BMP5
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A317-H454
Purity/Specificity:	Natural and recombinant human BMP-5. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P22003](#)
- [NCBI - NP_066551.1](#)
- [GeneID - 653](#)
- [KOA0149 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human BMP-5 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 human cell culture supernates, serum or bone tissue to each empty well. It is recommended that each human BMP-5 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.

Formulation

Shipping & Handling

Shipping Condition: Wet Ice

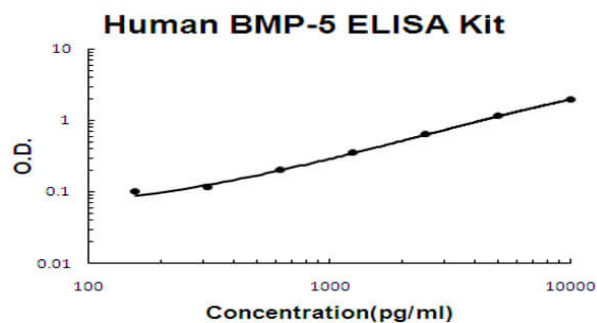
Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images

ELISA

Human BMP-5 AccuSignal ELISA Kit standard curve. Assay
Range: 156pg/ml-10000g/ml. Sensitivity: <10pg/ml.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.