

## ARG82092 Rat BMP7 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82092-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82092-002	Standard	2 X 10 ng/vial	4°C
ARG82092-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82092-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82092-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82092-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82092-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82092-008	25X Wash buffer	20 ml	4°C
ARG82092-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82092-010	STOP solution	10 ml (Ready to use)	4°C
ARG82092-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82092 Rat BMP7 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat BMP7 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	BMP7
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3%; Inter-Assay CV: 7.2%
Alternate Names	BMP-7; OP-1; Osteogenic protein 1; Eptotermin alfa; Bone morphogenetic protein 7

## Application Instructions

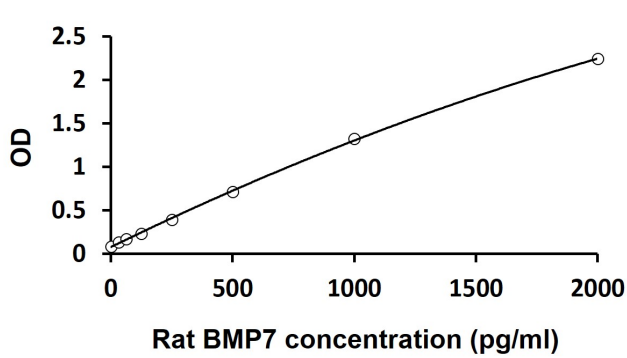
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	BMP7
Gene Full Name	bone morphogenetic protein 7
Background	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity. [provided by RefSeq, Jul 2008]
Function	Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis. [UniProt]
Highlight	Related products: <a href="#">BMP antibodies</a> ; <a href="#">BMP ELISA Kits</a> ; <a href="#">BMP recombinant proteins</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	Several N-termini starting at positions 293, 300, 315 and 316 have been identified by direct sequencing resulting in secretion of different mature forms. [UniProt]
Cellular Localization	Secreted. [UniProt]



ARG82092 Rat BMP7 ELISA Kit standard curve image

ARG82092 Rat BMP7 ELISA Kit results of a typical standard run with optical density reading at 450 nm.