

## ARG81981 Rat BMP9 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81981-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81981-002	Standard	2 X 10 ng/vial	4°C
ARG81981-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81981-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81981-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81981-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81981-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81981-008	25X Wash buffer	20 ml	4°C
ARG81981-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81981-010	STOP solution	10 ml (Ready to use)	4°C
ARG81981-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81981 Rat BMP9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat BMP9 in bone tissue, 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	BMP9
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Bone tissue, serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.0%; Inter-Assay CV: 6.9%
Alternate Names	GDF-2; BMP-9; Growth/differentiation factor 2; BMP9; Bone morphogenetic protein 9; HHT5

## Application Instructions

Assay Time	~ 5 hours
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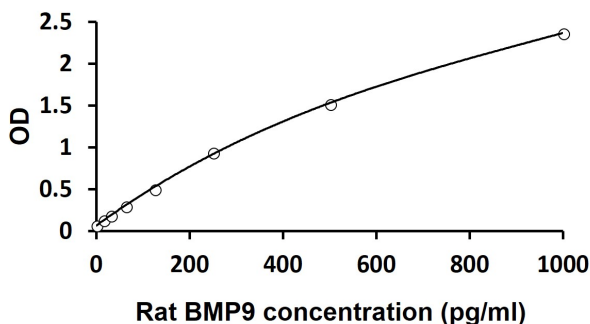
## Properties

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	GDF2
Gene Full Name	growth differentiation factor 2
Background	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia. [provided by RefSeq, Jan 2014]
Function	Potent circulating inhibitor of angiogenesis. Could be involved in bone formation. Signals through the type I activin receptor ACVRL1 but not other Alks. Signaling through SMAD1 in endothelial cells requires TGF-beta coreceptor endoglin/ENG. [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>

## Images



ARG81981 Rat BMP9 ELISA Kit standard curve image

ARG81981 Rat BMP9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.