

ARG82113 Rat BMP10 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82113-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82113-002	Standard	2 X 10 ng/vial	4°C
ARG82113-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82113-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82113-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82113-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82113-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82113-008	25X Wash buffer	20 ml	4°C
ARG82113-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82113-010	STOP solution	10 ml (Ready to use)	4°C
ARG82113-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82113 Rat BMP10 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat BMP10 in serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	BMP10
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.0%; Inter-Assay CV: 6.7%
Alternate Names	Bone morphogenetic protein 10; BMP-10

Application Instructions

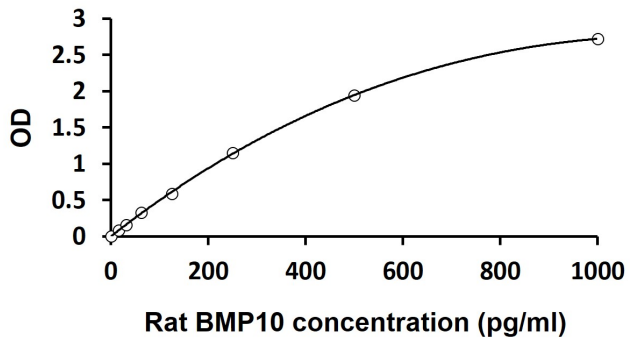
Assay Time	~ 5 hours
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Properties

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	BMP10
Gene Full Name	bone morphogenetic protein 10
Background	The protein encoded by this gene is a member of the TGF-beta family of growth factors. Data suggest that the similar protein in mouse plays an important role in trabeculation of the embryonic heart. In human, this protein may signal through receptor serine/threonine kinases. [provided by RefSeq, Jul 2008]
Function	Required for maintaining the proliferative activity of embryonic cardiomyocytes by preventing premature activation of the negative cell cycle regulator CDKN1C/p57KIP and maintaining the required expression levels of cardiogenic factors such as MEF2C and NKX2-5. Acts as a ligand for ACVRL1/ALK1, BMPR1A/ALK3 and BMPR1B/ALK6, leading to activation of SMAD1, SMAD5 and SMAD8 transcription factors. Inhibits endothelial cell migration and growth. May reduce cell migration and cell matrix adhesion in breast cancer cell lines. [UniProt]
Highlight	Related products: BMP antibodies ; BMP ELISA Kits ; BMP recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Secreted. [UniProt]



ARG82113 Rat BMP10 ELISA Kit standard curve image

ARG82113 Rat BMP10 ELISA Kit results of a typical standard run with optical density reading at 450 nm.