ARG81404
Human BMP4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81404-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81404-002	Standard	2 X 10 ng/vial	4°C
ARG81404-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81404-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81404-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81404-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81404-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81404-008	25X Wash buffer	20 ml	4°C
ARG81404-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81404-010	STOP solution	10 ml (Ready to use)	4°C
ARG81404-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81404 Human BMP4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human BMP4 in cell culture supernatants.
Tested Reactivity	Hu
Predict Reactivity	Bov, Mk
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	BMP4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml

Sample Volume	100 µl
Precision	Intra-Assay CV: 6.4% Inter-Assay CV: 7.1%
Alternate Names	BMP2B; BMP-4; OFC11; Bone morphogenetic protein 2B; BMP2B1; Bone morphogenetic protein 4; MCOPS6; ZYME; BMP-2B

Application Instructions

Assay Time	~ 5 hours

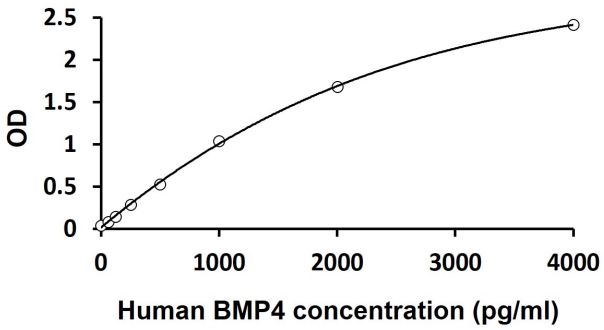
Properties

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	BMP4
Gene Full Name	bone morphogenetic protein 4
Background	The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein. [provided by RefSeq, Jul 2008]
Function	Induces cartilage and bone formation. Also act in mesoderm induction, tooth development, limb formation and fracture repair. Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction (By similarity). [UniProt]
Highlight	Related products: BMP antibodies; BMP ELISA Kits; BMP recombinant proteins; New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Images



ARG81404 Human BMP4 ELISA Kit standard curve image

ARG81404 Human BMP4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.