BMPR1A Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	BMPR1A, Recombinant Protein
Full Product Name	Recombinant Mouse BMPR1A
Product Gene Name	BMPR1A recombinant protein
Product Synonym Names	ALK-3; Bone morphogenetic protein receptor type-1A; BMP type-1A receptor; BMPR-1A; Activin receptor-like kinase 3; BMP-2/BMP-4 receptor; Serine/threonine-protein kinase receptor R5; SKR5; CD292; Acvrlk3
Sequence	Gln24-Arg1 52
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of 20mM PB, 150mM NaCl, pH7.4
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	60,063 Da
3D Structure	ModBase 3D Structure for P36895
Species	Mouse
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal His-hFc Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for BMPR1A recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for BMPR1A recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for BMPR1A recombinant protein	MBS7621431 is a recombinant protein targeting BMPR1A. Also known as Recombinant Mouse BMPR1A. Host: Mammalian Cells.
Other Notes	Small volumes of BMPR1A recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMPR1A. It may not necessarily be applicable to this product.

NCBI GI #	547779
NCBI GeneID	12166
NCBI Accession #	P36895.1

UniProt Primary Accession #	P36895
UniProt Related Accession #	P36895
NCBI Official Full Name	Bone morphogenetic protein receptor type-1A
NCBI Official Synonym Full Names	bone morphogenetic protein receptor, type 1A
NCBI Official Symbol	Bmpr1a
NCBI Official Synonym Symbols	ALK3; Bmpr; BMPR-IA; AU045487; 1110037I22Rik
UniProt Protein Name	Bone morphogenetic protein receptor type-1A
UniProt Synonym Protein Names	Activin receptor-like kinase 3; ALK-3; BMP-2/BMP-4 receptor; Serine/threonine-protein kinase receptor R5; SKR5; CD_antigen: CD292
Protein Family	Bone morphogenetic protein receptor
UniProt Gene Name	Bmpr1a
UniProt Synonym Gene Names	Acvrlk3; Bmpr; BMP type-1A receptor; BMPR-1A; ALK-3; SKR5
UniProt Entry Name	BMR1A_MOUSE
NCBI Protein Information	bone morphogenetic protein receptor type-1A; SKR5; ALK-3; BMPR-1A; BMP type-1A receptor; BMP-2/BMP-4 receptor; activin receptor-like kinase 3; serine/threonine-protein kinase receptor R5
UniProt Comments for BMPR1A	BMPR1A: a serine/threonine-protein kinase receptor for Bone morphogenetic protein-2 and -4 (BMP-2 and BMP-4). Defects in BMPR1A are a cause of juvenile polyposis syndrome (JPS) and Cowden disease (CD), a cancer syndrome characterized by multiple hamartomas and by a high risk for breast, thyroid and endometriel cancers. Protein type: Membrane protein, integral; Protein kinase, Ser/Thr (receptor); EC 2.7.11.30; Protein kinase, TKL; Kinase, protein; TKL group; STKR family; Type1 subfamily Cellular Component: cell soma; membrane; dendrite; plasma membrane; integral to membrane; caveola Molecular Function: transferase activity; protein serine/threonine kinase activity; protein homodimerization activity; metal ion binding; transferase activity, transferring phosphorus-containing groups; nucleotide binding; kinase activity; SMAD binding; transmembrane receptor protein serine/threonine kinase activity; ATP binding; receptor signaling protein serine/threonine kinase activity; protein kinase activity Biological Process: neural plate mediolateral pattern formation; transcription from RNA polymerase II promoter; paraxial mesoderm development; heart morphogenesis; hindlimb morphogenesis; developmental growth; neural crest cell development; positive regulation of transcription, DNA-dependent; heart development; mesendoderm development; paraxial mesoderm structural organization; dorsal/ventral axis specification; palate development; protein amino acid phosphorylation; negative regulation of neurogenesis; BMP signaling pathway; anterior/posterior pattern formation; transmembrane receptor protein serine/threonine kinase signaling pathway; positive regulation of mesenchymal cell proliferation; ectoderm development; embryonic morphogenesis; cell differentiation; Mullerian duct regression; nervous system development; regulation of endothelial cell proliferation; somitogenesis; in utero embryonic development; lateral mesoderm development; stem cell maintenance; positive regulation of bone mineralization; pattern specification process; regulation of endothelial cell differentiation; odontogenesis of dentine-containing teeth; positive regulation of osteoblast differentiation; mesoderm formation; dorsal/ventral pattern formation; pituitary gland development; cartilage development; embryonic organ development; immune response; embryonic digit morphogenesis; phosphorylation; regulation of lateral mesodermal cell fate specification; positive regulation of epithelial cell proliferation; lung development; endoderm development
Research Articles on BMPR1A	**1.** results provide evidence that HFE induces hepcidin expression via the BMP pathway: HFE interacts with ALK3 to stabilize ALK3 protein and increase ALK3 expression at the cell surface.
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