

Recombinant Human BMPR-1A Protein, His Tagged

Cat. No. BMPR1A-11206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BMPR-1A, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 24-Arg 152 (Accession # P36894-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 24
Species	Human
Source	HEK293
ProteinLength	24-152 aa
Description	The bone morphogenetic protein receptor, type IA is also known as BMPR1A or ALK3 is a protein which in humans is encoded by the BMPR1A gene. BMPR1A has also been designated as CD292 (cluster of differentiation 290). The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A (this protein) and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. Alk3-mediated BMP signaling in AV endocardial/mesenchymal cells plays a central role during cushion morphogenesis.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 16.1 kDa. The protein migrates as 25-29 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	BMPR1A bone morphogenetic protein receptor, type IA [Homo sapiens (human)]
Official Symbol	BMPR1A
Synonyms	BMPR1A; bone morphogenetic protein receptor, type IA; ACVRLK3; bone morphogenetic protein receptor type-1A; ALK3; CD292; ALK-3; BMPR-1A; BMP type-1A receptor; activin receptor-like kinase 3; activin A receptor, type II-like kinase 3; serine/threonine-protein kinase receptor R5; SKR5; 10q23del;
Gene ID	657
mRNA Refseq	NM_004329
Protein Refseq	NP_004320
MIM	601299

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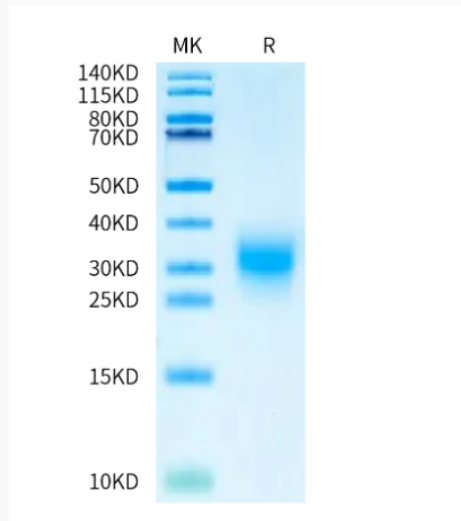
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UniProt ID

P36894

SDS-PAGE



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