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# Product Information

## MemDX™ Membrane Protein Human BMPR1A (Bone morphogenetic protein receptor type 1A) expressed in insect for Antibody Discovery

Cat. No.: **MP0147Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 23 kDa Human BMPR1A membrane protein expressed in Insect. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
BMPR1A

**Protein Length**
Full-length

**Protein Class**
Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

**Molecular Weight**
23 kDa

**TMD**
1

**Sequence**
MPQLYIYIRLLGAYLFIISRVQGQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLK
CYCSGHCPDDAINNTCITNGHCFAIIEEDDQGETTLASGCMKYEGSDFQCKDSPKAQLRR
TIECCRTNLCNQYLQPTLPPVVIGPFFDGSIRWLVLLISMAVCIIAMIIFSSCFCYKHYC
KSISSRRRYNRDLEQDEAFIPVGESLKDLIDQSQSSGSGSGLPLLVQRTIAKQIQMVRQV
GKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTG
SWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAACGLCHLHTEIYGTQGKPAIAH
RDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTKRYMAPEVLDESLNKN
HFQPYIMADIYSFGLIIWEMARRCITGGIVEEYQLPYYNMVPSDPSYEDMREVVCVKRLR
PIVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIKKTLAKMVESQDVKI

## Product Description

**Expression Systems**
Insect

**Form**

Powder

**Endotoxin**

< 0.1 ng per μg

**Purity**

>90% pure by SDS-PAGE and silver staining

**Buffer**

PBS

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

BMPR1A

**Full Name**

Bone morphogenetic protein receptor type 1A

**Introduction**

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding.

**Alternative Names**

bone morphogenetic protein receptor type-1A; 10q23del; ACVRLK3; ALK3; CD292; SKR5; ALK-3; BMP type-1A receptor; BMPR-1A; activin A receptor, type II-like kinase 3; activin receptor-like kinase 3; serine/threonine-protein kinase receptor R5

**Gene ID**

657

**UniProt ID**

P36894

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