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# Product Information

## MemDX™ Membrane Protein Human BMPR1A (Bone morphogenetic protein receptor type 1A) Full Length

Cat. No.: **MPC1758K**
This product is for research use only and is not intended for diagnostic use.

This product is a 60.1 kDa Human BMPR1A membrane protein expressed in HEK293. 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**
Transferase

**Molecular Weight**
60.1 kDa

**TMD**
1

**Sequence**
MPQLYIYIRLLGAYLFIISRVQGQNLDSMLHGTGMKSDSDQKKSENGVTL
APEDTLPFLKCYCSGHCPDDAINNTCITNGHCFAIIEEDDQGETTLASGC
MKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQPTLPPVVIGPFFDGS
IRWLVLLISMAVCIIAMIIFSSCFCYKHYCKSISSRRRYNRDLEQDEAFI
PVGESLKDLIDQSQSSGSGSGLPLLVQRTIAKQIQMVRQVGKGRYGEVWM
GKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTG
SWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAACGLCHLHTEIY
GTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNT
RVGTKRYMAPEVLDESLNKNHFQPYIMADIYSFGLIIWEMARRCITGGIV
EEYQLPYYNMVPSDPSYEDMREVVCVKRLRPIVSNRWNSDECLRAVLKLM
SECWAHNPASRLTALRIKKTLAKMVESQDVKI

## Product Description

**Expression Systems**
HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## 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

BMPR1A; ALK3; SKR5; CD292; ACVRLK3; 10q23del; bone morphogenetic protein receptor type-1A; ALK-3; BMP type-1A receptor; BMPR-1A; activin A receptor, type II-like kinase 3; activin receptor-like kinase 3; bone morphogenetic protein receptor, type IA; serine/threonine-protein kinase receptor R5; Bone morphogenetic protein receptor type 1A

### Gene ID

657

### UniProt ID

P36894