# BMPR1A (Human) Recombinant Protein

Catalog # P8466 Size 2 x 10 ug

## Specification

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|---|---|
| **Product Description** | Human BMPR1A (P36894, 24 a.a. - 152a.a.) partial-length recombinant protein with hIgG-His tag at C-terminal expressed in *Baculovirus*. |
| **Sequence** | ADPQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDDAINNTCITNGHCFAI IEEDDQGETTLASGCMKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQPTLPPVVIGPFFDGSI RLEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQ PREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLY SKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKHHHHHH. |
| **Host** | Viruses |
| **Theoretical MW (kDa)** | 41.4 |
| **Form** | Liquid |
| **Preparation Method** | *Baculovirus* expression system |
| **Purity** | > 95% by SDS-PAGE |
| **Storage Buffer** | Phosphate Buffered Saline (pH7.4) and 10% glycerol. |
| **Storage Instruction** | Store, frozen at -20°C for longer periods of time. |

## Applications

- SDS-PAGE

## Gene Info — BMPR1A

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| **Entrez GeneID** | 657 |
| **Protein Accession#** | P36894 |

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|---|---|
| **Gene Name** | BMPR1A |
| **Gene Alias** | 10q23del, ACVRLK3, ALK3, CD292 |
| **Gene Description** | bone morphogenetic protein receptor, type IA |
| **Omim ID** | 158350 174900 601299 610069 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000020014\|activin A receptor, type II-like kinase 3 |

## Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

## Disease

- Adenomatous Polyposis Coli
- Alzheimer Disease
- Anemia
- Bacteremia
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colonic Neoplasms

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- Diabetes Mellitus
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Insulin Resistance
- Intestinal Polyposis
- Intestinal Polyps
- Kidney Failure
- Liver Cirrhosis
- Neoplastic Syndromes
- Obesity
- Ovarian Failure
- Peutz-Jeghers Syndrome
- Polycystic Ovary Syndrome
- Polyps
- Precancerous Conditions
- Puberty
- Stomach Neoplasms
- Telangiectasia
- Thrombophilia
- Tobacco Use Disorder

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