# Active Recombinant Human BMP Receptor Type IA, His-tagged

**Cat. No.** BMPR1A-26H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Form** | White lyophilized powder from a concentrated (1 mg/mL) sterile solution containing 1X PBS. Recombinant human BMPR1A is purified by proprietary chromatographic techniques. |
| **Bio-activity** | Measured by its ability to inhibit recombinant human BMP-2 induced alkaline phosphatase production by C2C12 myogenic cells. The ED50 for this effect is typically 1-3 μg/mL in the presence of 500 ng/mL of recombinant human BMP-2. |
| **Molecular Mass** | 23 kDa |
| **Purity** | >90% determined by RP-HPLC, and SDS-PAGE. |
| **Usage** | For in vitro research use only. Not for use in diagnostics or in humans. |
| **Storage** | Lyophilized protein is stable for at least 3 weeks at room temperature. Long term storage should be below -18°C, desiccated. Upon reconstitution, human recombinant BMPR1A should be stored at 4°C between 2-7 days, and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid freeze/thaw cycles. |

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| **Reconstitution** | It is recommended to reconstitute the lyophilized recombinant human BMPR1A in sterile PBS at not less than 100 μg/mL, which can then be further diluted to other aqueous solutions. |
| **Warning** | No warranties, expressed or implied, are made regarding the use of this product. Creative Biomart is not liable for any damage, personal injury, or economic loss caused by this product. |

## GENE INFORMATION

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| **Gene Name** | BMPR1A bone morphogenetic protein receptor, type IA [ Homo sapiens ] |
| **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 |
| **UniProt ID** | P36894 |
| **Chromosome Location** | 10q22.3 |

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| **Pathway** | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Heart Development, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; |
| **Function** | ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; |

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