

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

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

### SPECIFICATION

#### 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

**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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