

Active Recombinant Human BMP Receptor Type IA, His-tagged

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

SPECIFICATION

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.
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

 Tel: 1-631-559-9269 1-516-512-3133

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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
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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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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