

Recombinant Human BMPR1A protein, hlgG/His-tagged

Cat. No. BMPR1A-142H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMPR1A(24-152aa) fused with hlgG/His tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	24-152 a.a.
Description	BMPR1A, also known as bone morphogenetic protein receptor type-1A, is secreted cytokines/growth factors belonging to the Transforming Growth Factor beta (TGFbeta) family. It has been shown to be overexpressed in human breast cancers. Its deletion impairs mammary tumor formation and metastasis. It plays important roles in the differentiation and development of neurons. Its expression is up-regulated during bone formation, and that they may play important roles in bone morphogenesis. Recombinant human BMPR1A, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	41.4kDa (371aa) 40-57kDa (SDS-PAGE under reducing conditions)
AA Sequence	ADPQNLD SML HGTGMKSDSD QKKSENGVTL APEDTLPFLK CYCSGHCPDD

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AINNTCITNG HCFAIIEEDD QGETTLASGC MKYEGSDFQC
 KDSPKAQLRR TIECCRTNLC NQYLQPTLPP VVIGPFFDGS IRLEPKSCDK
 THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV
 VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD
 WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLP
 PSRDELTKNQ VSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG
 SFFLYSKLTV DKSRWQQGNV FSCSVMEAL HNHYTQKSLS
 LSPGKHHHHH H

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name **BMPR1A** bone morphogenetic protein receptor, type IA [Homo sapiens]

Official Symbol **BMPR1A**

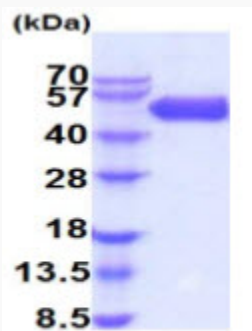
Synonyms BMPR1A; bone morphogenetic protein receptor, type IA; ACVRLK3; bone morphogenetic protein receptor type-1A; ALK3; CD292; ALK-3; BMPR-1A; BMP type-1A receptor; activin receptor-like kinase 3; activin A receptor, type II-like kinase 3; serine/threonine-protein kinase receptor R5; SKR5; 10q23del;

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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-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;



15% SDS-PAGE (3ug)

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