

Recombinant Human BMPR1A

Cat. No. BMPR1A-26752TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human BMPR1A with N-terminal proprietary tag, 346 amino acids, MWt 66kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	346 amino acids
Description	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.
Molecular Weight	66.000kDa inclusive of tags
Tissue specificity	Highly expressed in skeletal muscle.
Biological activity	The Specific activity of BMPR1A-26752TH was determined to be 1.2 nmol/min/mg.

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Form	Liquid
Purity	Densitometry
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 GS domain. Contains 1 protein kinase domain.

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;
Gene ID	657
mRNA Refseq	NM_004329
Protein Refseq	NP_004320
MIM	601299
Uniprot ID	P36894

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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;
Function	ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding;

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