

# Recombinant Human BMPR1A

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

## SPECIFICATION

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

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<b>Form</b>	Liquid
<b>Purity</b>	Densitometry
<b>Storage buffer</b>	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
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 GS domain. Contains 1 protein kinase domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">BMPR1A bone morphogenetic protein receptor, type IA [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">BMPR1A</a>
<b>Synonyms</b>	BMPR1A; bone morphogenetic protein receptor, type IA; ACVRLK3; bone morphogenetic protein receptor type-1A; ALK3; CD292;
<b>Gene ID</b>	<a href="#">657</a>
<b>mRNA Refseq</b>	<a href="#">NM_004329</a>
<b>Protein Refseq</b>	<a href="#">NP_004320</a>
<b>MIM</b>	<a href="#">601299</a>
<b>Uniprot ID</b>	<a href="#">P36894</a>

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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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