

Active Recombinant Human BMPR1B, Fc-tagged, Biotinylated

Cat. No. BMPR1B-555H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human BMPR1B-Fc fusion protein is expressed as a 342 amino acid protein consisting of Lys14 - Arg126 region of BMPR1B (UniProt accession #O00238) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition
Species	Human
Source	Human Cells
ProteinLength	14-126 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Recombinant BMPR1B protein binds human BMP4 and blocks BMP4-induced signaling activity (e.g., alkaline phosphatase production in chondrogenic cells)
Molecular Mass	Calculated molecular mass (kDa): 38.4; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	KKEDGESTAPTPRPKVLRCCKHHCPEDSVNNICSTDGYCFTMIEEDDSGLPVVTS GCLGLEGSDFQCRDTPIP HQRRSIECCTERNECNKDLHPTLPPLKNRDFVDGPIHH RASTGHTHCPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEV KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK AL PAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNG

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	QPENNYKTTPVLDS DGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS LSLSPGK
Endotoxin	<0.1 eu per 1 µg of purified recombinant protein determined by the
Purity	>95% judged by SDS-PAGE under reducing condition
Storage	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.
Conjugation	Biotin

GENE INFORMATION

Gene Name	BMPR1B bone morphogenetic protein receptor, type IB [Homo sapiens]
Official Symbol	BMPR1B
Synonyms	BMPR1B; bone morphogenetic protein receptor, type IB; bone morphogenetic protein receptor type-1B; ALK6; CDw293; BMPR-1B; BMP type-1B receptor; activin receptor-like kinase 6; serine/threonine receptor kinase; ALK-6;
Gene ID	658
mRNA Refseq	NM_001203
Protein Refseq	NP_001194

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MIM	603248
UniProt ID	O00238
Chromosome Location	4q23-q24
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Ovarian Infertility Genes, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; transmembrane receptor protein serine/threonine kinase activity; transmembrane receptor protein serine/threonine kinase activity;