Recombinant Human Bone Morphogenetic Protein Receptor, Type IB, His-tagged

Cat. No. BMPR1B-939H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMPR1B, a 113 amino acids protein with polyhistidine tag at C-terminus, and has a calculated MW of 13.5 KDa. DTT-reduced protein migrates as 30 KDa protein due to glycosylation.
Species	Human
Source	HEK293
Description	BMPR1B is a protein which in humans is encoded by the BMPR1B gene. Bone morphogenetic proteins (BMPs) signal through the BMP type I and type II receptors to regulate cellular processes, including embryonic development. The type I BMP receptors activin-like kinase (ALK)3 and BMPR1B share a high degree of homology, yet possess distinct signaling roles. Decreased expression of BMPR-IB correlates with poor prognosis in breast cancer patients and leads to increased cell proliferation of breast cancer cells in vitro, and BMPR-IB mediates an inhibitory effect on breast cancer cells.
Form	Bulk protein in a 0.22 μm filtered solution of PBS, pH7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
Purity	>97% purity as determined by SDS-PAGE of reduced BMPR1B.
Endotoxin	Less than 0.01 ng endotoxin per

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	μg BMPR1B.
Storage	Store at -80°C upon received. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	BMPR1B bone morphogenetic protein receptor, type IB [Homo sapiens]
Official Symbol	BMPR1B
Synonyms	BMPR1B; bone morphogenetic protein receptor, type IB; ALK6; ALK-6; CDw293; activin receptor-like kinase 6; serine/threonine receptor kinase; EC 2.7.11.30; OTTHUMP00000161622; CDw293 antigen; BMPR-1B; BMP type-1B receptor; bone morphogenetic protein receptor type-1B; OTTHUMP00000161622; OTTHUMP00000219359; OTTHUMP00000161621; OTTHUMP00000219880; OTTHUMP00000219882
Gene ID	658
mRNA Refseq	NM_001203
Protein Refseq	NP_001194
MIM	603248
UniProt ID	O00238
Chromosome Location	4q22-q24
Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway; Signaling by

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	BMP; Ovarian Infertility Genes
Function	transforming growth factor beta receptor activity, type I; ATP binding; SMAD binding; magnesium ion binding; manganese ion binding; nucleotide binding; receptor activity; transferase activity

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