Recombinant Human BMPR2 protein, His & T7-tagged

Cat. No. BMPR2-577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMPR2 (Q13873) aa. (Ser27~Thr150) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser27~Thr150
Description	This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of two 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. Mutations in this gene have been associated with primary pulmonary hypertension, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.7kDa

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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 95%
Characteristic	The isoelectric point is 6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4

GENE INFORMATION

Gene Name	BMPR2 bone morphogenetic protein receptor type 2 [Homo sapiens (human)]
Official Symbol	BMPR2
Synonyms	BMPR2; bone morphogenetic protein receptor type 2; BMR2; PPH1; BMPR3; BRK-3; POVD1; T-ALK; BMPR-II; bone morphogenetic protein receptor type-2; BMP type II receptor; BMP type-2 receptor; bone morphogenetic protein receptor type II; bone morphogenetic protein receptor, type II (serine/threonine kinase); type II activin receptor-like kinase; type II receptor for bone morphogenetic protein-4

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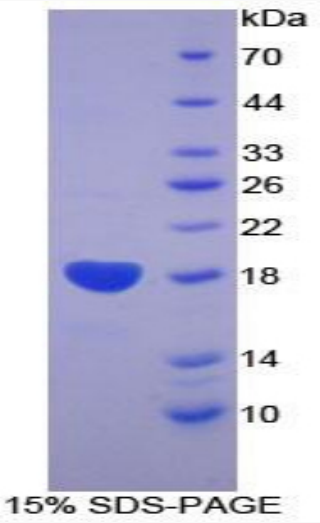
Gene ID	659
mRNA Refseq	NM_001204.6
Protein Refseq	NP_001195.2
UniProt ID	Q13873
SDS-PAGE	

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