Active Recombinant Human BMPR2 protein, His-tagged

Cat. No. BMPR2-0770H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human BMPR2 protein(Q13873)(27~150 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	27-150 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Bone Morphogenetic Protein Receptor 2 (BMPR2) is a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. BMPR2 is a TGFβ type II receptor expressed on cumulus cells. Growth Differentiation Factor 9 (GDF9) can bind to BMPR2 through different type I receptors, thereby regulating downstream metabolic reactions. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human BMPR2 and recombinant human GDF9. Briefly, biotin-linked BMPR2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to GDF9-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read

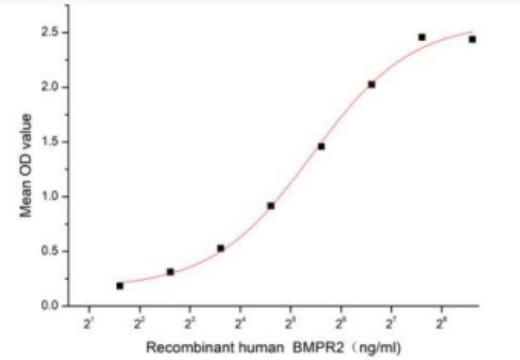
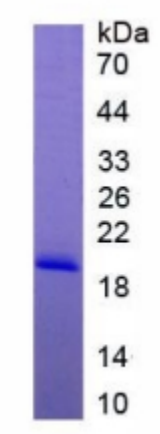
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	at 450 nm immediately. The binding activity of recombinant human BMPR2 and recombinant human GDF9 was shown, the EC50 for this effect is 42.87 ng/mL.
Molecular Mass	17.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	BMPR2 bone morphogenetic protein receptor, type II (serine/threonine kinase) [Homo sapiens]
Official Symbol	BMPR2
Synonyms	BMPR2; bone morphogenetic protein receptor, type II (serine/threonine kinase); PPH1, primary pulmonary hypertension 1; bone morphogenetic protein receptor type-2; BMPR II; BMPR3; BRK 3; T ALK; BMPR-2; BMP type-2 receptor; BMP type II receptor; type II activin receptor-like kinase; bone morphogenetic protein receptor type II; type II receptor for bone morphogenetic protein-4; BMR2; PPH1; BRK-3; T-ALK; BMPR-II; FLJ41585; FLJ76945;
Gene ID	659

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mRNA Refseq	NM_001204
Protein Refseq	NP_001195
MIM	600799
UniProt ID	Q13873
Activity	
SDS-PAGE	

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