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Datasheet for ABIN1691570

BMPR2 Protein (AA 27-151) (Fc Tag,His tag)

Overview

Quantity:	50 µg
Target:	BMPR2
Protein Characteristics:	AA 27-151
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BMPR2 protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Recombinant Human BMP Receptor II/BMPR2/PPH1 (C-Fc-6His)
Sequence:	<p>SQNQERLCAF KDPYQQDLGI GESRISHENG TILCSKGSTC YGLWEKSKGD INLVKQGCWS HIGDPQECHY EECVVTTTPP SIQNGTYRFC CCSTDLCNVN FTENFPPPD TPLSPPHSFN RDETIVDDIE GRMDEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSREEMTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMEHA LHNHYTQKSL SLSPGKHHHH HH</p>
Characteristics:	Recombinant Human Bone morphogenetic protein receptor type-2/BMPR2/PPH1 is produced by our mammalian expression system. The target protein is expressed with sequence (Ser27-Ile151) of Human BMPR- II fused with FC and polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	BMPR2
Alternative Name:	BMPR II (BMPR2 Products)
Sub Type:	Fusionprotein
Background:	<p>Bone Morphogenetic Protein Receptor II (BMPR-II) is a Type II Serine/Threonine Kinase that mediates cellular responses to BMPs. BMPR-II is characterized by lacking of a GS domain, and presence of a C-terminal extension typical of type II receptors. BMPRII binds BMP2, BMP4 and BMP7 weakly in the absence of type I receptor, and the binding can be facilitated by the presence of the type I receptor, including BMPR-IA/Brk1, BMPR-IB, and ActR-I. BMPR-II plays a key role in cell growth. Defects in BMPR-II have been linked to primary pulmonary hypertension. Human and mouse BMPR-II are highly conserved and share 97 % amino acid sequence identity. Alternative Names: Bone Morphogenetic Protein Receptor Type-2, BMP Type-2 Receptor, BMPR-2, Bone Morphogenetic Protein Receptor Type II, BMP Type II Receptor, BMPR-II, BMPR2, PPH1</p>
Molecular Weight:	41.9 kDa
UniProt:	Q13873
Pathways:	Growth Factor Binding

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	5 months