

[Go to Product page](#)

Datasheet for ABIN1096143

BMPR2 Protein (AA 27-151) (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 His tag.

Product Details

Purpose:	Recombinant Human BMP Receptor II/BMPR2/PPH1 (C-6His)
Sequence:	SQNQERLCAF KDPYQQDLGI GESRISHENG TILCSKGSTC YGLWEKSKGD INLVKQGCWS HIGDPQECHY EECVVTTPP SIQNGTYRFC CCSTDLCNVN FTENFPPPD TPLSPPHSFN RDETIVDHHH HHH
Characteristics:	Recombinant Human Bone Morphogenetic Protein Receptor Type II/BMPR-II produced by transfected human cells is a secreted protein with sequence (Ser27-Ile151) of Human BMPR2 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
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:	15.05 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.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>

Handling

Expiry Date: 3 months