

# Recombinant Human BMPR2 Protein, GST-tagged

**Cat. No.** BMPR2-288H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Human BMPR2 partial ORF ( NP_001195.2, 939 a.a. - 1037 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 36.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | NSLDLSATNVLDGSSIQIGESTQDGKSGSGEKIKRVKTPYSLKRWRPSTWVISTES<br>LDCEVNNNGSNRAVHSKSSTAVYLAEGGTATTMVSKDIGMNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Control Test</b> | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Notes</b>                | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>              | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>       | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>            | BMPR2 bone morphogenetic protein receptor, type II (serine/threonine kinase) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>      | BMPR2                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>             | 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; |
| <b>Gene ID</b>              | 659                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>          | NM_001204                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>       | NP_001195                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>                  | 600799                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>           | Q13873                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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