

# Recombinant Mouse Bmpr2 Protein, MYC/DDK-tagged

**Cat. No.** Bmpr2-715M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Purified recombinant protein of full-length mouse bone morphogenetic protein receptor, type II (serine/threonine kinase) (Bmpr2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene encodes a serine/threonine kinase that functions as a receptor for bone morphogenetic proteins (BMPs). The encoded protein is a type II receptor that binds extracellular BMPs and forms a complex of two type II and two type I receptors at the cell membrane. This complex signals downstream to activate SMAD transcriptional regulators. This signaling is important during embryonic development. Mutations in this gene can cause pulmonary hypertension. |
| <b>Molecular Mass</b>   | 115.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Bmpr2 bone morphogenetic protein receptor, type II (serine/threonine kinase) [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | Bmpr2                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | Bmpr2; bone morphogenetic protein receptor, type II (serine/threonine kinase); BMP-2; BRK-3; BMPR-2; BMPRII; BMPR-II; Gm20272; AL117858; AW546137; BB189135; 2610024H22Rik; bone morphogenetic protein receptor type-2; BMP type II receptor; BMP type-2 receptor; bone morphogenic protein receptor, type II (serine/threonine kinase); EC 2.7.11.30 |
| <b>Gene ID</b>         | 12168                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_007561                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>  | NP_031587                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | O35607                                                                                                                                                                                                                                                                                                                                                |

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