

## Product datasheet for **TP308673L**

### **BMPR2 (NM\_001204) Human Recombinant Protein**

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human bone morphogenetic protein receptor, type II (serine/threonine kinase) (BMPR2), 1 mg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC208673 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                      |

MTSSLQRPWRVPWLPWTILLVSTAAASQNQERLCAFKDPYQQDLGIGESRISHENGTLCSKGSTCYGLW  
EKSXGDINLVKQGCWSHIGDPQECHYECCVTTTPPSIQNGTYRFCCSTDLCNVNFTENFPPDTPPLS  
PPHSFNREDETHIALASVSVLAVLIVALCFGYRMLTGDRKQGLHSMNMMEAAASEPSLDLDNLKLELIG  
RGRYGAVYKGSlderPVAVKVFsfANRQNFINEKNIYRVLMEHDNIARFIVGDERVTADGRMEYLLVME  
YYPNGSLCKYLSLHTSDWVSSCRLAHSVTRGLAYLHTELPRGDHYKPAISHRDLNSRNVLVKNDGTCVIS  
DFGLSMRLTGNRLVRPGEEDNAAISEVGTIRYMAPEVLEGAVNLRDCEALKQVDMYALGLIYWEIFMRC  
TDLFPGESVPEYQMAFQTEVGNHPTFEDMQVLVSREKQRPKFPKAWKENS LAVRSLKETIEDCWDQDAEA  
RLTAQCAEERMAELMMIWERNKSVSPTVNPSTAMQNERNLSHNRRVPKIGPYPDYSSSSYIEDSIHHTD  
SIVKNISSEHSMSTPLTIGEKNRNSINYERQQAQARIPSPETSVTSLSTNTTTTNTTGLTPSTGMTTIS  
EMPYPDETNLHTTNVAQSIGPTPVCLQLTEEDLETNKLDPKVEVDKNLKESSDENLMEHSLKQFSGPDPLS  
STSSLLYPLIKLAVEATGQQDFTQTANGQA CLIPDVLPQTQIYPLPKQQNLPKRPTSLPLNTKNSTKEPR  
LKFGSKHKSNLQVETGVAKMNTINAAEPHVVTVMNGVAGRNVSHVNSHAATTQYANGTVLSGQTTNIVT  
HRAQEMLQNQFIGEDTRLNINSSPDEHEPLLREQQAGHDEGLDRLVDRRRERPLEGGRTNSNNNNNSNPC  
SEQDVLAQGVSTAADPGPSKPRRAQRPNSLDLSATNVLDGSSIQIGESTQDGKSGSGEKIKKRVKTPYS  
LKRWRPSTWVISTESLDCEVNNNGSNRAVHKSSTAVYLAEGGTATTMVSKDIGMNCL

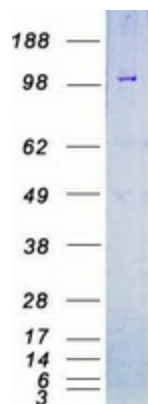
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |   |
|----------------|---|
| Tag:           | C-Myc/DDK   |
| Predicted MW:  | 112.2 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method          |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol        |



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|                          |   |
|--------------------------|---|
| <b>Preparation:</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  |
| <b>Note:</b>             | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  |
| <b>Storage:</b>          | Store at -80°C.   |
| <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>RefSeq:</b>           | <a href="#">NP_001195</a>   |
| <b>Locus ID:</b>         | 659   |
| <b>UniProt ID:</b>       | <a href="#">Q13873</a>  |
| <b>RefSeq Size:</b>      | 12086   |
| <b>Cytogenetics:</b>     | 2q33.1-q33.2  |
| <b>RefSeq ORF:</b>       | 3114  |
| <b>Synonyms:</b>         | BMPR-II; BMPR3; BMR2; BRK-3; POVD1; PPH1; T-ALK   |
| <b>Summary:</b>          | This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor 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. Mutations in this gene have been associated with primary pulmonary hypertension, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease. [provided by RefSeq, May 2020] |
| <b>Protein Families:</b> | Druggable Genome, Protein Kinase, Transmembrane   |
| <b>Protein Pathways:</b> | Cytokine-cytokine receptor interaction, TGF-beta signaling pathway  |

**Product images:**

Coomassie blue staining of purified BMPR2 protein (Cat# [TP308673]). The protein was produced from HEK293T cells transfected with BMPR2 cDNA clone (Cat# [RC208673]) using MegaTran 2.0 (Cat# [TT210002]).