

## Product datasheet for **TP306048**

### **BMPR1A (NM\_004329) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human bone morphogenetic protein receptor, type IA (BMPR1A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206048 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPQLYIYIRLLGAYLFIISRVQGNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDD  
AINNTCITNGHCFAIIEEDDQGETTLASGCMKYEGSDFQCKDSPAQLRRTIECCRTNLCNQYLQPTLPP  
VWIGPFFDGSIRWLVLISMAVCIAMIIFSSCFYKHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLI  
DQSQSSGSGSGLPLLQRTIAKQIQMVRQVKGGRYGEVWMGKWRGEKVAVKVFFTTTEASWFRETEIYQT  
VLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLHTEIY  
GTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTKRYMAPEVLDES LNKN  
HFQPYIMADIYSFGLIIEWEMARRCITGGIVEEYQLPYNNMVPSPSYEDMREVVVCVKRLRPVSNRWNSD  
ECLRAVLKLMSECWAHNPASRLTALRIKKTAKMVESQDVKI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

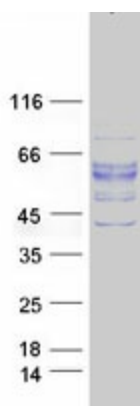
Tag:	C-Myc/DDK
Predicted MW:	57.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<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_004320</a>
<b>Locus ID:</b>	657
<b>UniProt ID:</b>	<a href="#">P36894</a>
<b>RefSeq Size:</b>	3631
<b>Cytogenetics:</b>	10q23.2
<b>RefSeq ORF:</b>	1596
<b>Synonyms:</b>	10q23del; ACVRLK3; ALK3; CD292; SKR5
<b>Summary:</b>	The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

### Product images:



Coomassie blue staining of purified BMPR1A protein (Cat# TP306048). The protein was produced from HEK293T cells transfected with BMPR1A cDNA clone (Cat# [RC206048]) using MegaTran 2.0 (Cat# [TT210002]).