

Product datasheet for PH306048

BMPR1A (NM_004329) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BMPR1A MS Standard C13 and N15-labeled recombinant protein (NP_004320)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206048
Predicted MW:	60.2 kDa
Protein Sequence:	>RC206048 protein sequence Red=Cloning site Green=Tags(s)

MPQLYIYIRLLGAYLFIISRVQGNLDSMLHGTGMKSDSDQKSENGVTLAPEDTLPFLKCYCSGHCPDD
A INNTCITNGHCF A IIEEDDQGETTLASGCMKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQPTLPP
V VIGPFFDGSIRWL VLLISMAVCI IAMIIFSSFCYKHYCKS ISSRRRYNRDLEQDEAFIPVGESLKD LI
DQSQSSGSGSGLPLL VQRTIAKQIQMVRQVKGGRYGEVWMGKWRGEKVAVKVFFTEEASWFRETEIYQT
VLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLHTEIY
GTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTGRYMAPEVLD ESNLKN
HFQPYIMADIYSFGLI IWEMARRCITGGIVEEYQLPYNNMVP SDPSYEDMREVVCKRLRP IVSNRWNSD
ECLRAVLKLMSECAHNPASRLTALRIKKTAKMVESQDVKI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004320</u>
RefSeq Size:	3631
RefSeq ORF:	1596



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Synonyms: 10q23del; ACVRLK3; ALK3; CD292; SKR5

Locus ID: 657

UniProt ID: [P36894](#)

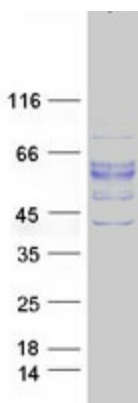
Cytogenetics: 10q23.2

Summary: 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]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Protein Pathways: 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]).