

Recombinant Full Length Human BMPR1A Protein, GST-tagged

Cat. No. BMPR1A-3749HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human BMPR1A full-length ORF (AAH28383, 1 a.a. - 532 a.a.) recombinant protein with GST-tag at N-terminal.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

532 amino acids

Description

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.

Form

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Molecular Mass

84.26 kDa

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AA Sequence

MPQLYIYIRLLGAYLFIISRVQGGQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPF
 LKCYCSGHCPDDAINNTCITNGHCFIIEEDDQGETTLASGCMKYEGSGFQCKDSPK
 AQLRRTIECCRTNLCNQYLQPTLPPVIGPFFDGSIRWLVLISMVAVCIAMIIFSSFC
 YKHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDVQSSGSGSGLPLLQRTIAK
 QIQMVRQVGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHE
 NILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHL
 HTEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGT
 KRYMAPEVLDESLNKNHFQPYIMADIYSFGLIIEWEMARRCITGGIVEEYQLPYNMVP
 SDPSYEDMREVVVCVRLRPVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIK
 KTLAKMVESQDVKI

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

BMPR1A bone morphogenetic protein receptor, type IA [Homo sapiens]

Official Symbol

BMPR1A

Synonyms

BMPR1A; bone morphogenetic protein receptor, type IA; ACVRLK3; bone morphogenetic protein receptor type-1A; ALK3; CD292; ALK-3; BMPR-1A; BMP type-1A receptor; activin receptor-like kinase 3; activin A receptor, type II-like kinase 3; serine/threonine-protein kinase receptor R5; SKR5; 10q23del;

Gene ID

657

mRNA Refseq

NM_004329

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Protein Refseq NP_004320

MIM 601299

UniProt ID P36894

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