

Recombinant Human BMPR1A Protein (177-532 aa), His-SUMO-tagged

Cat. No. BMPR1A-361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMPR1A Protein (177-532 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	177-532 aa
Description	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP-2 and BMP-4. Positively regulates chondrocyte differentiation through GDF5 interaction.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	56.6 kDa
AA Sequence	KHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDLIDQSQSSGSGSGLPLLVQRTIAKQIQMVRQVGKGRYGEVWMGKWRGEEKVAVKVFFTTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLHTEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTK

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RYMAPEVLDESLNKNHFQPYIMADIYSFGLIIWEMARRCITGGIVEEYQLPYYNMVPS
 DPSYEDMREVVVCVKRLRPIVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIKK
 TLAKMVESQDVKI

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [BMPR1A bone morphogenetic protein receptor, type IA \[Homo sapiens \]](#)

Official Symbol [BMPR1A](#)

Synonyms [BMPR1A](#); [ACVRLK3](#); [ALK3](#); [CD292](#); [ALK-3](#); [BMPR-1A](#); [SKR5](#); [10q23del](#);

Gene ID [657](#)

mRNA Refseq [NM_004329](#)

Protein Refseq [NP_004320](#)

MIM [601299](#)

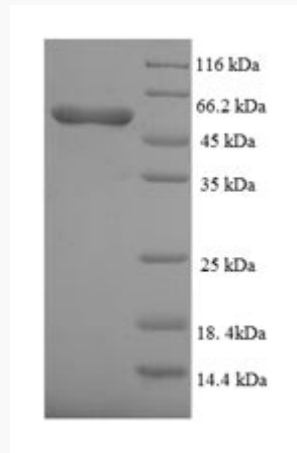
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UniProt ID

P36894



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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