A Reliable Research Partner in Life Science and Medicine

## Recombinant Human BMPRIA/ALK-3 Protein (Fc & His Tag)

Catalog No. PKSH032120

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Bone Morphogenetic Protein Receptor Type-1A;BMP Type-1A

Receptor;BMPR-1A;Activin Receptor-Like Kinase 3;ALK-3;Serine/Threonine-Protein Kinase Receptor R5;SKR5;CD292;BMPR1A;ACVRLK3;ALK3;10q23del

Species Human

Expression Host HEK293 Cells
Sequence Gln24-Arg152
Accession P36894
Calculated Molecular Weight 42.1 kDa
Observed molecular weight 60 kDa

**Bioactivity** Not validated for activity

#### **Properties**

Tag

**Purity** > 95 % as determined by reducing SDS-PAGE.

C-Fc-His

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

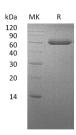
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

# Background

## For Research Use Only

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#### **Elabscience Bionovation Inc.**



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Bone Morphogenetic Protein Receptor Type-1A (BMPR1A) belongs to the TKL Ser/Thr protein kinase family and TGFB receptor subfamily, including the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. BMPR1A is a single-pass type I membrane protein and highly expressed in skeletal muscle. BMPR1A contains one GS domain and one protein protein kinase domain. BMPR1A is necessary for the extracellular matrix deposition by osteoblasts. BMPR1A can activate SMAD transcriptional regulators, binding with ligands. Defects in BMPR1A are a cause of juvenile polyposis syndrome, Cowden disease and hereditary mixed polyposis syndrome 2 (HMPS2).

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