

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

Catalog Number: PKSH032120

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

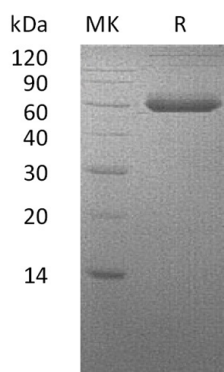
Description

Species	Human
Source	HEK293 Cells-derived Human BMPRIA;ALK-3 protein Gln24-Arg152, with an C-terminal Fc & His
Calculated MW	42.1 kDa
Observed MW	60 kDa
Accession	P36894
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
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% Tween 80 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

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

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