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

Catalog Number:PKSH032120

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

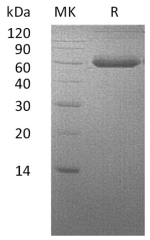
Description

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
Tag	C-Fc-His

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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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

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 depostition 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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