Recombinant Human Activin Receptor 2B/ACVR2B Protein (Fc & His Tag)

Catalog No. PKSH032041

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

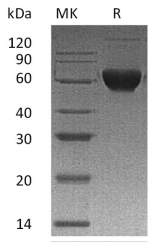
Description

Synonyms	Activin Receptor Type-2B;Activin Receptor Type IIB;ACTR-IIB;ACVR2B;Bone Morphogenetic Protein Receptor Type-2;BMP Type-2 Receptor;BMPR-3;Bone Morphogenetic Protein Receptor Type II;BMP Type II Receptor
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser19-Thr134
Accession	Q13705
Calculated Molecular Weight	41.3 kDa
Observed molecular weight	60 kDa
Tag	C-Fc-His
Bioactivity	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℃. 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 20mM PB, 150mM NaCl, 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



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Background

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Activin proteins that belong to the transforming growth factor-beta (TGF-β) superfamily; exert their biological actions by binding to heteromeric receptor complexes of type I and type II serine/threonine kinase receptors. On ligand binding; type I and II receptors form a stable complex; resulting in phosphorylation of type I receptors by type II receptors with constitutive kinase activity; and subsequently initiates the activation of downstream molecules including the endogenous Smads. ActRIIB; also known as ActRIIB; is a type II receptor containing an extracellular domain (ECD); a transmembrane segment; and a cytoplasmic region that includes the kinase domain. ActRIIB is a receptor for activin A; activin B and inhibin A. Multiple ActRIIB isoforms can also be generated; which bind activin isoforms with different affinities.

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