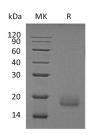
Recombinant Human ALK-2/ACVR1 Protein (Human Cells, His Tag)

Catalog No. PKSH032036

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

Description	
Synonyms	Activin Receptor Type-1;Activin Receptor Type I;ACTR-I;Activin Receptor-Like Kinase 2;ALK-2;Serine/Threonine-Protein Kinase Receptor R1;SKR1;TGF-B Superfamily Receptor Type I;TSR- I;ACVR1;ACVRLK2;ACVR1A;ACVRLK2;ALK2;FOP;SKR1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met21-Val124
Accession	Q04771
Calculated Molecular Weight	12.6 kDa
Observed molecular weight	17 kDa
Tag	C-His
Bioactivity	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g 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 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	

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

Activin receptor type-1; also known as Activin receptor type I; Activin receptor-like kinase 2; Serine/threonine-protein kinase receptor R1; TGF-B superfamily receptor type I; ACVRLK2 and ACVR1; is a single-pass type I membrane protein. ACVR1 is expressed in normal parenchymal cells; endothelial cells; fibroblasts and tumor-derived epithelial cells. ACVR1 belongs to the protein kinase superfamily. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins; composed of a ligand-binding extracellular domain with cysteine-rich region; a transmembrane domain; and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding; resulting in phosphorylation of type I receptors by type II receptors. ACVR1 signals a particular transcriptional response in concert with activin type II receptors.

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