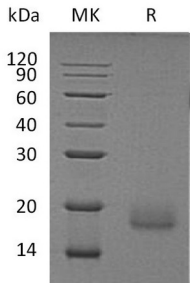
Product Name: Recombinant Human ACVR1 (C-6His)
Catalog #: PHH0016

Summary

Name	ALK-2/Activin RIA/Receptor protein serine/threonine kinase/ACVR1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Activin Receptor Type-1A is produced by our Mammalian expression system and the target gene encoding Met21-Val124 is expressed with a 6His tag at the C-terminus.
Accession #	Q04771
Host	Human Cells
Species	Human
Predicted Molecular Mass	12.6 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image



Background

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Alternative Names	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
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.

Note

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