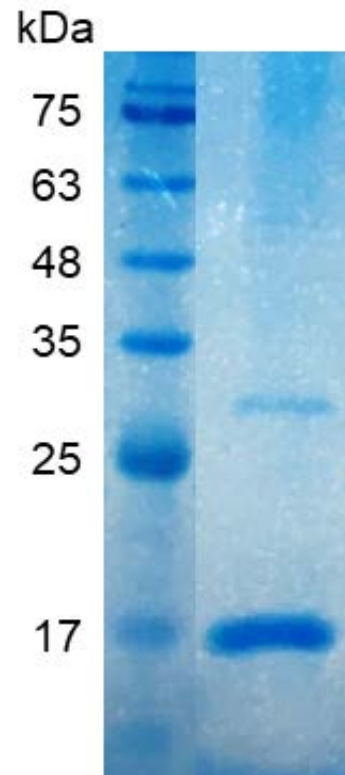


Recombinant Human ACVR1B Protein, C-His-tagged

Product Information

Cat	IMP-9176
Official Symbol	ACVR1B
Product Overview	Human ACVR1B recombinant protein with polyhistidine tag at the C-terminus expressed in <i>E. coli</i> .
Description	<p>Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. 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 a 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. This gene encodes activin A type IB receptor, composed of 11 exons. Alternative splicing and alternative polyadenylation result in 3 fully described transcript variants. The mRNA expression of variants 1, 2, and 3 is confirmed, and a potential fourth variant contains an alternative exon 8 and lacks exons 9 through 11, but its mRNA expression has not been confirmed.</p>
Expression System	<i>E. coli</i>
Species	Human
Tag	C-His
Form	Lyophilized from a solution containing 1X PBS, pH 8.0. Reconstitute the lyophilized powder in ddH ₂ O to 100 µg/mL.
AA Sequence	MGLECDGRTNLCCRQQFFIDFRLIGWNDWIIAPTGYGNYCEGSCPAYLA GVPGSASSFHTAVVNQYRMRGLNPGTVNSCCIPTKLSTMSMLYFDDEYN IVKRDVPMIVEECGCA with polyhistidine tag at the C-terminus.
Endotoxin	< 0.1 EU/µg of protein by the LAL method.
Purity	> 98% by SDS-PAGE
Applications	Functional Study; SDS-PAGE
Storage	Lyophilized protein should be stored at -20 centigrade. Protein aliquots should be stored at -20 to -80 centigrade.
SDS-PAGE	



SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of ACVR1B (Human) Recombinant Protein.

Bioactivity-ELISA 1

