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Activin A Receptor Type IB/ALK-4 Protein (Fc Tag, His tag)



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Quantity:	100 μg
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Activin A Receptor Type IB/ALK-4 protein is labelled with Fc Tag,His tag.

Product Datails

Product Details	
Purpose:	Active Recombinant Human ALK-4/ACVR1B Protein
Sequence:	MAESAGASSF FPLVVLLLAG SGGSGPRGVQ ALLCACTSCL QANYTCETDG ACMVSIFNLD GMEHHVRTCI PKVELVPAGK PFYCLSSEDL RNTHCCYTDY CNRIDLRVPS GHLKEPEHPS MWGPVE
Specificity:	Met1-Glu126
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human ACVR1B at 0.5 μg/mL (100 μL/well) can bind Human ACVR2B with a linear range of 2.0-286.1 ng/mL.

Target Details

Target Details	
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Alternative Name:	ALK-4/ACVR1B (ACVR1B Products)
Background:	Description: ALK-4 (Activin Receptor-Like Kinase 4) or ACVR1B (Activin A Receptor, type 1B),
	belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family, and TGFB
	receptor subfamily. ALK-4/ACVR1B acts as a transducer of activin or activin like ligands
	signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B.
	The known type II activin receptors include ActRII and ActRIIB, while the main type I activin
	receptor in mammalian cells is ALK-4 (ActRIB). In the presence of activin, type II and type I
	receptors form complexes whereby the type II receptors activate ALK-4 through
	phosphorylation. The activated ALK-4, in turn, transduces signals downstream by
	phosphorylation of its effectors, such as Smads, to regulate gene expression and affect cellular
	phenotype. ALK-4/ACVR1B is an important regulator of vertebrate development, with roles in
	mesoderm induction, primitive streak formation, gastrulation, dorsoanterior patterning, and left-
	right axis determination.
	Name: ACTRIB, ACVRLK4, ALK4, SKR2, ACVR1B, ACVRLK4, ALK4, SKR2
Gene ID:	91
UniProt:	P36896-1
Application Details	
Restrictions:	For Research Use only

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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile
	distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is
	recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %
	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein
	solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.