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Datasheet for ABIN7194115
ACVRL1 Protein (Fc Tag)

Overview

Quantity:	100 µg
Target:	ACVRL1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVRL1 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human ALK-1/ACVRL1 Protein (Fc Tag)(Active)
Sequence:	Met 1-Gln 118
Characteristics:	A DNA sequence encoding the N-terminal segment (Met 1-Gln 118) of the extracellular domain of human ALK1 (NP_000011.2) pro-protein was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to bind Human ENG-Fc in functional Elisa. 2. Measured by its ability to latent TGFB1-His in functional Elisa. 3. Measured by its ability to mouse ENG-His in functional Elisa. 4. Measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. David, L. et al. (2007) Blood 109:1953. The ED50 for this effect is typically 5-15 ng/mL in the presence of 2 ng/mL of recombinant human BMP9.

Target Details

Target:	ACVRL1
Alternative Name:	ALK-1/ACVRL1 (ACVRL1 Products)
Background:	<p>Background: Activin A receptor, type II-like 1 (ACVRL1), also known as ALK-1 (activin receptor-like kinase 1), is an endothelial-specific type I receptor of the TGF-beta (transforming growth factor beta) receptor family of ligands. On ligand binding, a heteromeric receptor complex forms consisting of two type II and two type I transmembrane serine/threonine kinases. ACVRL1 protein is expressed in certain blood vessels of kidney, spleen, heart and intestine, serving as an important role during vascular development. Mutations in ACVRL1 gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2 and vascular disease.</p> <p>Synonym: Serine/Threonine-Protein Kinase Receptor R3, SKR3, Activin Receptor-Like Kinase 1, ALK-1, TGF-B Superfamily Receptor Type I, TSR-I, ACVRL1, ACVRLK1, ALK1,HHT,HHT2,ORW2,SKR3</p>
Molecular Weight:	37.4 kDa
NCBI Accession:	NP_000011

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.