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Datasheet for ABIN7194118 **ACVRL1 Protein (His 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 His tag.

Product Details

Purpose:	Recombinant Human ALK-1/ACVRL1 Protein (His Tag)(Active)
Sequence:	Met 1-Gln 118
Characteristics:	A DNA sequence encoding the the extracellular domain of human ALK1 (NP_000011.2) (Met 1-Gln 118) was fused with a polyhistide tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	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 50-200 ng/mL in the presence of 2 ng/mL of recombinant human BMP9.

Target Details

Target:	ACVRL1
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Target Details

Alternative Name: ALK-1/ACVRL1 ([ACVRL1 Products](#))

Background: 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.

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

Molecular Weight: 12.3 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.