Active Recombinant Human ACVRL1 protein, hFc-tagged

Cat. No. ACVRL1-768H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human ACVRL1 protein(Met 1-Gln 118)(NP_000011.2) was expressed in Human Cells, fused with the Fc region of human IgG1 at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	1-118 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	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 recombiant human BMP9.
Molecular Mass	The mature recombinant human ALK1/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer comprises 335 amino acids and has a predicted molecular mass of 37.4 kDa. As a result of glycosylation, the recombinant monomer migrates as an approximately 45-50 kDa protein in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.

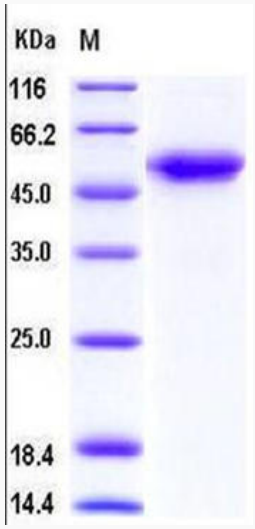
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 97 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ACVRL1 activin A receptor type II-like 1 [Homo sapiens]
Official Symbol	ACVRL1
Synonyms	ACVRL1; activin A receptor type II-like 1; ACVRLK1, ORW2; serine/threonine-protein kinase receptor R3; ALK1; HHT; HHT2; activin receptor-like kinase 1; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 1; ORW2; SKR3; ALK-1; TSR-I; ACVRLK1;
Gene ID	94
mRNA Refseq	NM_000020
Protein Refseq	NP_000011
MIM	601284
UniProt ID	P37023

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA