

## Active Recombinant Mouse Acvr11 protein(Met1-Pro119), His&hFc-tagged

**Cat. No.** Acvr11-2333M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse ALK1 (NP_033742.2)(Met 1-Pro 119) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of Human IgG1 at the C-terminus.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Pro119
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	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 60-300 ng/mL in the presence of 2 ng/mL of recombinant human BMP9.
<b>Molecular Mass</b>	The secreted recombinant mouse ALK1/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer comprises 345 amino acids with a predicted molecular mass of 39 kDa. As a result of glycosylation, it migrates as an approximately 50-55 kDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 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](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<i>Acvr11</i> activin A receptor, type II-like 1 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	<i>Acvr11</i>
<b>Synonyms</b>	ACVRL1; activin A receptor, type II-like 1; serine/threonine-protein kinase receptor R3; SKR3; TSR-I; activin receptor-like kinase 1; activin receptor-like kinase-1; TGF-B superfamily receptor type I; Alk1; Acvr1k1; AI115505; AI427544;
<b>Gene ID</b>	11482
<b>mRNA Refseq</b>	NM_009612
<b>Protein Refseq</b>	NP_033742

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