

Active Recombinant Mouse Acvr1 protein(Met1-Pro119), His&hFc-tagged

Cat. No. Acvr1-2333M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Pro119
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	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.
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 [<i>Mus musculus</i>]
Official Symbol	Acvrl1
Synonyms	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; Acvrlk1; AI115505; AI427544;
Gene ID	11482
mRNA Refseq	NM_009612
Protein Refseq	NP_033742

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