

ALK-1 Active Protein | ACVRL1 active protein

ALK-1 Protein, Mouse, Recombinant (His & hFc Tag)

CATALOG #
AAA258143

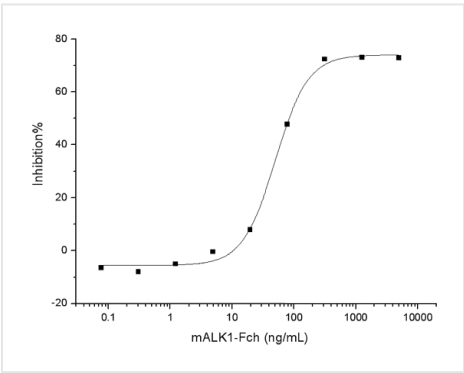
HOST
HEK293 Cells

PRODUCT SYNONYMS

ALK-1; ALK-1 Protein; Mouse; Recombinant (His & hFc Tag); Mouse ALK-1/ACVRL1 Protein (His & Fc Tag); Acvrlk1 Protein; AI115505 Protein; AI427544 Protein; Alk1 Protein; activin A receptor type II-like 1; ACVRL1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Pro119
Species	Mouse
Activity	Measured by its ability to inhibit BMP9-induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. The ED50 for this effect is typically 60-300ng/mL in the presence of 2ng/mL of recombinant human BMP9.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Asp 23
Tag	C-human IgG1-Fc & His
Protein Construction	A DNA sequence encoding the mouse ALK1 (NP_033742.2) precursor (Met 1-Pro 119) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
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.

ADDITIONAL INFORMATION

Related Product Information for ACVRL1 active protein	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.
References	French Rendu-Osler network,et al. (2004) Molecular screening of ALK1/ACVRL1 and ENG genes in hereditary hemorrhagic telangiectasia in France. Hum Mutat. 23(4): 289-299.Simon M, et al. (2006) Association of a polymorphism of the ACVRL1 gene with sporadic arteriovenous malformations of the central nervous system. J Neurosurg. 104(6): 945-9.Argyriou L, et al. (2006) Novel mutations in the ENG and ACVRL1 genes causing hereditary hemorrhagic teleangiectasia. Int J Mol Med. 17(4):655-9. David, L. et al. (2007) Blood 109:1953.

NCBI AND UNIPROT INFORMATION

NCBI GI #	108936965
NCBI GeneID	11482
NCBI Accession #	NP_033742.2
NCBI GenBank Nucleotide #	NM_009612.3
UniProt Accession #	Q61288; Q61289; Q91YR0
Molecular Weight	56,519 Da
NCBI Official Full Name	serine/threonine-protein kinase receptor R3 isoform a
NCBI Official Synonym Full Names	activin A receptor, type II-like 1
NCBI Official Symbol	Acvrl1
NCBI Official Synonym Symbols	Alk1; Acvrlk1; AI115505; AI427544
NCBI Protein Information	serine/threonine-protein kinase receptor R3
UniProt Protein Name	Serine/threonine-protein kinase receptor R3
UniProt Gene Name	Acvrl1
UniProt Synonym Gene Names	Acvrlk1; Alk-1; SKR3; ALK-1; TSR-I
UniProt Entry Name	ACVL1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/hek293-cells-acvrl1-active-protein/alk-1/258143>