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# Recombinant Mouse ALK-1/ACVRL1 Protein (Fc Tag)

Catalog No. PKSM041235

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

**Synonyms** Serine/threonine-protein kinase receptor R3:SKR3;Activin receptor-like kinase

1;ALK-1;TGF-B superfamily receptor type I;TSR-I;ACVRL1;activin A receptor

type II-like 1;activin A receptor

**Species** Mouse

Expression Host HEK293 Cells
Sequence Asp23-Pro119
Accession Q61288
Calculated Molecular Weight 38.1 kDa
Observed molecular weight 55-60 kDa
Tag C-Fc

**Bioactivity** Not validated for activity

#### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** 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.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

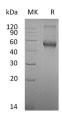
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

## Background

#### For Research Use Only

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### **Elabscience Bionovation Inc.**



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Activin Receptor-Like Kinase 1 (ALK-1) is a type I cell-surface receptor for the TGF-β superfamily of ligands, which mediates signaling of BMP9 (bone morphogenetic protein) and BMP10. ALK1 signaling is necessary for angiogenesis during embryogenesis, wound healing, and tumor growth. ALK-1 has a high degree of similarity in serine-threonine kinase subdomains, a glycine and serine rich region preceding the kinase-domain, and a C-terminal tail with other activin receptor-like kinase proteins. ALK-1 is mainly expressed in endothelial cells regulating proliferation and migration in vitro and angiogenesis in vivo. Mutations in ALK-1 as well as in endoglin are associated with hereditary hemorrhagic telangiectasia (HHT), suggesting ALK-1 plays a critical role for in the control of blood vessel development or repair.

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