

## Recombinant Human ALK-1 Protein(Fc Tag)

Catalog Number: PDMH100306

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

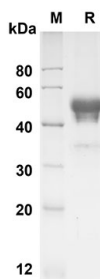
### Description

<b>Species</b>	Human
<b>Source</b>	Mammalian-derived Human ALK-1 proteins Asp22-Gln118, with an C-terminal Fc
<b>Mol_Mass</b>	35.5 kDa
<b>Accession</b>	P37023
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 90% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Human ALK-1 proteins , 2µg/lane of

Recombinant Human ALK-1 proteins was resolved with  
SDS-PAGE under reducing conditions , showing bands at 50  
KD

### 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.

### For Research Use Only