Recombinant Human ALK-1 Protein(Fc Tag)

Catalog Number: PDMH100306

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

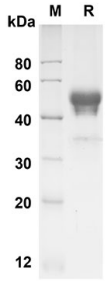
Description

Species	Human
Source	Mammalian-derived Human ALK-1 proteins Asp22-Gln118,with an C-terminal Fc
Calculated MW	35.5 kDa
Observed MW	50 kDa
Accession	P37023
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	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.

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