



Recombinant Protein Technical Manual
Recombinant Mouse ALK/ACVRL1 Protein (Fc Tag)
RPES0440

Product Data:

Product SKU: RPES0440

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q61288

Protein Information:

Molecular Mass: 38.1 kDa

AP Molecular Mass: 55-60 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Reconstitution: Please refer to it for detailed information.

Application:

Synonyms: Serine/threonine-protein kinase receptor R3; SKR3; Activin receptor-like kinase 1; ALK; TGF-B superfamily receptor type I; TSR-I; ACVRL1; activin A receptor type II-like 1; activin A receptor

Immunogen Information:

Sequence: Asp23-Pro119

Background:

Activin Receptor-Like Kinase 1 (ALK) 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 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 is mainly expressed in endothelial cells regulating proliferation and migration in vitro and angiogenesis in vivo. Mutations in ALK as well as in endoglin are associated with hereditary hemorrhagic telangiectasia (HHT), suggesting ALK plays a critical role for in the control of blood vessel development or repair.