A Reliable Research Partner in Life Science and Medicine

Recombinant Human ALK-1/ACVRL1 Protein (Fc Tag)

Catalog No. PKSH031899

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;ACVRLK1;ALK1;HHT;HHT2;ORW2;SKR3

Species Human

Expression Host
Sequence
Met 1-Gln 118
Accession
NP_000011.2
Calculated Molecular Weight
Observed molecular weight
Tag
HEK293 Cells
Act 1-Gln 118
NP_000011.2
37.4 kDa
45-50 kDa
C-hFc

Bioactivity 1. Measured by its ability to bind Human ENG-Fc, latent TGFB1-His, mouse ENG-

His in functional Elisa.

2. 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 5-15 ng/mL in the presence of 2 ng/mL of

recombiant human BMP9.

Properties

Purity > 97 % 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 sterile PBS, pH 7.4

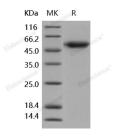
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 97 % as determined by reducing SDS-PAGE.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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Email: techsupport@elabscience.com





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Background

Activin A receptor, type II-like 1 (ACVRL1), also known as ALK-1 (activin receptor-like kinase 1), is an endothelialspecific 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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