

Recombinant Human ALK-1/ACVRL1 Protein

Catalog No.: RP00978 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	94	P37023

Tags

C-His

Synonyms

ACVRL1;ACVRLK1;ALK-1;ALK1;HHT;HHT2
;ORW2;SKR3;TSR-I; ALK-1; ALK1; HHT;
HHT2; ORW2; SKR3; TSR-I

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
11.55 kDa	25-30 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Background

This protein is a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases.

Basic Information

Description

Recombinant Human ALK-1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Asp22-Gln118) of human ALK-1 (Accession #NP_000011.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ALK-1 at 4 µg/mL (100 µL/well) can bind Human ACVR2B with a linear range of 0.08-2.4 µg/mL.

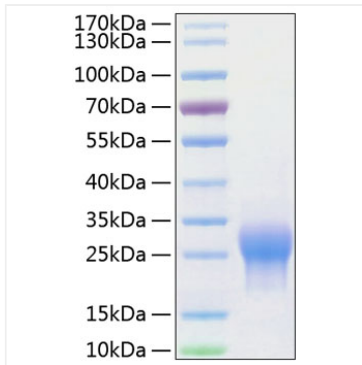
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

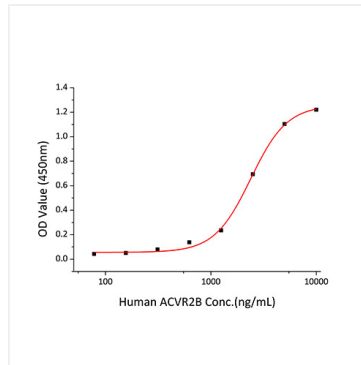
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human ALK-1/ACVRL1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.



Immobilized Human ALK-1 at 4 μ g/mL (100 μ L/well) can bind Human ACVR2B with a linear range of 0.08-2.4 μ g/mL.