

Recombinant Mouse Activin Receptor 2B/ACVR2B Protein (His Tag)

Catalog No. PKSM040825

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

Description

Synonyms 4930516B21Rik;ActRIIB

Species Mouse

Expression Host

Sequence

Met 1-Thr 134

Accession

NP_031423.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Thr 134

NP_031423.1

14.8 kDa

33-37 kDa

C-His

Bioactivity 1. Immobilized human ACVR2B at 10 µg/mL (100 µl/well) can bind biotinylated

mouse INHBA-His, The EC50 of biotinylated mouse INHBA-His is 0.161 $\mu g/mL$. Immobilized mouse INHBA-his at 10 $\mu g/mL$ (100 $\mu l/well$) can bind human Follistatin Protein, The EC50 of human Follistatin Protein is 0.39 $\mu g/mL$.

3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.2-0.8 µg/mL in the presence of

10 ng/mL recombinant Activin A.

Properties

Purity > 94 % 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

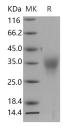
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 94 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

ACVR2A and ACVR2B are two activin type II receptors. ACVR2B is integral to the activin and myostatin signaling pathway. Ligands such as activin and myostatin bind to ACVR2A and ACVR2B. Myostatin, a negative regulator of skeletal muscle growth, is regarded as a potential therapeutic target and binds to ACVR2B effectively, and to a lesser extent, to ACVR2A. The structure of human ACVR2B kinase domain in complex with adenine establishes the conserved bilobal architecture consistent with all other catalytic kinase domains. Haplotype structure at the ACVR2B and follistatin loci may contribute to interindividual variation in skeletal muscle mass and strength. Defects in ACVR2B are a cause of left-right axis malformations.

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