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Recombinant Human Activin RIIA/ACVR2A Protein (Fc Tag)

PKSH031729 Catalog No.

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

Description

Activin Receptor Type-2A; Activin Receptor Type IIA; ACTR-**Synonyms**

IIA;ACTRIIA;ACVR2A;ACVR2;ACTRII

Species Human

Expression Host HEK293 Cells **Sequence** Met 1-Pro 134 NP_001607.1 Accession Calculated Molecular Weight 40.0 kDa Observed molecular weight 60-65 kDa Tag C-hFc

Bioactivity Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell

proliferation. The ED50 for this effect is typically 10-40 ng/mL in the presence of

10 ng/mL recombinant Activin A.

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

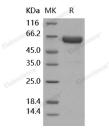
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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

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Elabscience Bionovation Inc.



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Background

ACVR2A and ACVR2B are two activin type II receptors. ACVR2A has been shown to interact with INHBA, SYNJ2BP and ACVR1B. The bovine ACVR2A gene encodes a protein of 513 amino acids which is highly homologous (approximately 98% identity) to the rat, mouse, and human ACVR2A proteins. Inactivation of ACVR2A is a common event in prostate cancer cells suggesting it may play an important role in the development of prostate cancer. The ACVR2A gene is a putative tumor suppressor gene that is frequently mutated in microsatellite-unstable colon cancers (MSI-H colon cancers). Frameshift mutation of ACVR2A may contribute to MSI-H colon tumorigenesis via disruption of alternate TGF-beta effector pathways.

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