

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

Catalog No. PKSM040826

Description

Synonyms	4930516B21Rik;ActRIIB
Species	Mouse
Expression_host	HEK293 Cells
Sequence	Met1-Thr134
Accession	NP_031423.1
Mol_Mass	41 kDa
AP_Mol_Mass	60-65 kDa
Tag	C-His-Fc
Bio_activity	1. Measured by its ability to bind biotinylated Human INHBA-his in functional ELISA.2. Measured by its ability to bind biotinylated mouse INHBA-his in functional ELISA.3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell prol

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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
Reconstitution	Please refer to the printed manual for detailed information.

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.

SDS-PAGE

