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## 37-1199: Mouse ALK-4 / ACVR1B Recombinant Protein (Fc Tag)(Discontinued)

**Reactivity:** Mouse

Alternative Name: 6820432J04 Protein, Mouse; ActR-IB Protein, Mouse; ActRIB Protein, Mouse; Acvrlk4 Protein, Mouse;

Alk4 Protein, Mouse; SKR2 Protein, Mouse

# **Description**

#### Source: HEK293 Cells

ALK-4 (Activin Receptor-Like Kinase 4) or ACVR1B (Activin A Receptor, type 1B), belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family, and TGFB receptor subfamily. ALK-4/ACVR1B acts as a transducer of activin or activin like ligands signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B. The known type II activin receptors include ActRII and ActRIIB, while the main type I activin receptor in mammalian cells is ALK-4 (ActRIB). In the presence of activin, type II and type I receptors form complexes whereby the type II receptors activate ALK-4 through phosphorylation. The activated ALK-4, in turn, transduces signals downstream by phosphorylation of its effectors, such as Smads, to regulate gene expression and affect cellular phenotype. ALK-4/ACVR1B is an important regulator of vertebrate development, with roles in mesoderm induction, primitive streak formation, gastrulation, dorsoanterior patterning, and left-right axis determination.

#### **Product Info**

Amount: 4 / ACVR1B Recombinant Protein (Fc Tag)(Discontinued) / 100 µg

**Purification:** > 95 % as determined by SDS-PAGE.

Formulation Lyophilized from sterile PBS, pH 7.4.

**Content:** Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before

lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid: Met1-Glu126

### **Application Note**

Measured by its ability to bind with rat TDGF1-His in a functional ELISA. Endotoxin :< 1.0 EU per  $\tilde{A} \sqcap \hat{A} \mu g$  protein as determined by the LAL method.

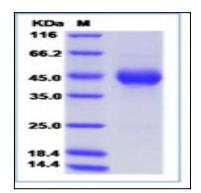


Fig 1: Mouse ALK-4 / ACVR1B Recombinant Protein (Fc Tag)