

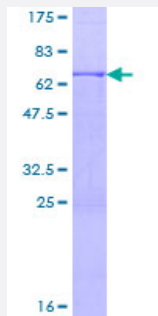
Full-Length

ACVR2B (Human) Recombinant Protein (P01)

Catalog # H00000093-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACVR2B full-length ORF (AAH96245.1, 1 a.a. - 303 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNDFVAVKIFPLQDKQSWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTD
YLGNIITWNELCHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSKNVLLKSDLTAVLADF
GLAVRFEPGKPPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELVSRCKAAD
GPVDEYMLPFEEEIGQHPSLEELQEYVVHKKMRPTIKDHWLKHPLAQLCVTIEECWDHDAEAR
LSAGCVEERVSLIRRSVNGTTSDCLVSLVTSVTNVDLPPKESSI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.6

Interspecies Antigen Sequence

Mouse (99); Rat (99)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACVR2B

Entrez GeneID[93](#)**GeneBank Accession#**[BC096245.1](#)**Protein Accession#**[AAH96245.1](#)**Gene Name**

ACVR2B

Gene Alias

ACTRIIB, ActR-IIB, MGC116908

Gene Description

activin A receptor, type IIB

Omim ID[602730](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor. [provided by RefSeq]

Other Designations

activin A type IIB receptor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)