

Recombinant Active Human ACVR2B Protein, GST-tagged

Cat. No. ACVR2B-02H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human ACVR2B (182-488) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Species Human

Source Insect Cells

ProteinLength 182-488

Description 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.

Molecular Mass Approx 61 kDa

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Purity	> 85%
Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Shipping	Dry ice

GENE INFORMATION

Gene Name	ACVR2B activin A receptor type 2B [Homo sapiens (human)]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin A receptor type 2B; HTX4; ACTRIIB; ActR-IIB; activin receptor type-2B; activin A receptor, type IIB; EC 2.7.11.30
Gene ID	93
mRNA Refseq	NM_001106
Protein Refseq	NP_001097
MIM	602730

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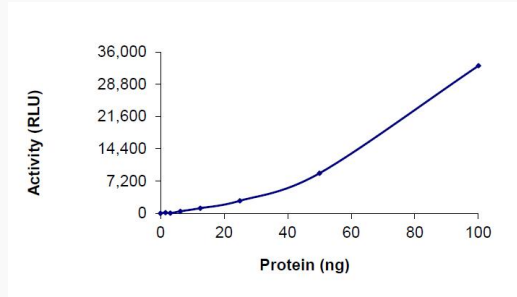
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UniProt ID

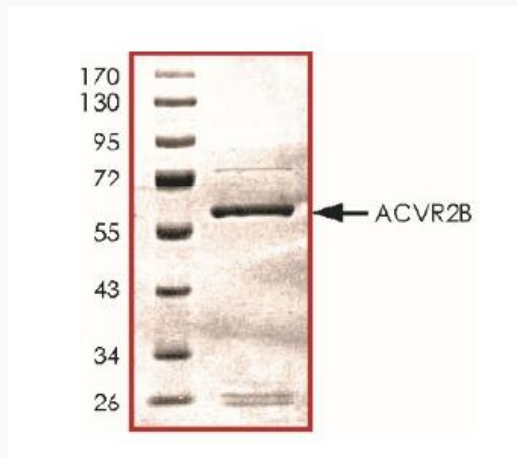
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Specific Activity



The specific activity of ACVR2B was determined to be 1.2 nmol/min/mg as per activity assay protocol.

Purity



The purity of ACVR2B was determined to be > 85% by densitometry.

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