

Recombinant Human ACVR1 protein, His & GST-tagged

Cat. No. ACVR1-5681H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACVR1 aa. (Ile208~Lys340 (Accession # Q04771)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile208~Lys340
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. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive.
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 47.2kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	ACVR1 activin A receptor type 1 [Homo sapiens (human)]
Official Symbol	ACVR1
Synonyms	ACVR1; activin A receptor type 1; FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2; activin receptor type-1; TGF-B superfamily receptor type I; activin A receptor, type I; activin A receptor, type II-like kinase 2; activin receptor type I; activin

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receptor-like kinase 2; hydroxyalkyl-protein kinase; serine/threonine-protein kinase
receptor R1

Gene ID

90

mRNA Refseq

NM_001105.4

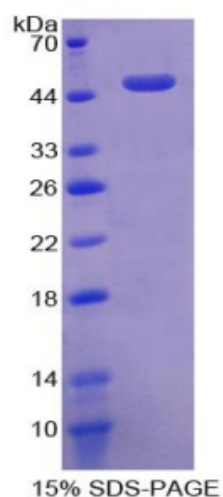
Protein Refseq

NP_001096.1

UniProt ID

Q04771

SDS-PAGE



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