# Active Recombinant Human ACVR1 Protein, GST-His-tagged

**Cat. No.** ACVR1-245H **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Human ACVR1 (NM_001105, 145 a.a. - 509 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells. |
| **Species** | Human |
| **Source** | Insect Cells |
| **ProteinLength** | 145-509 a.a. |
| **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. [provided by RefSeq, Jul 2008] |
| **Form** | Liquid |

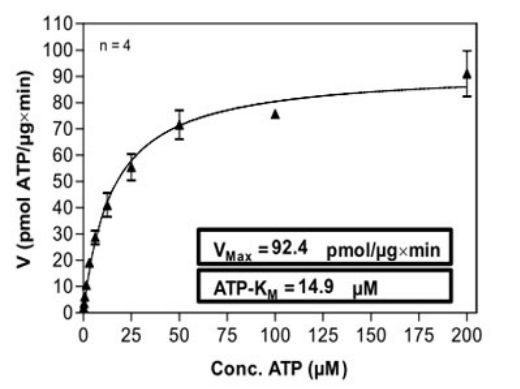
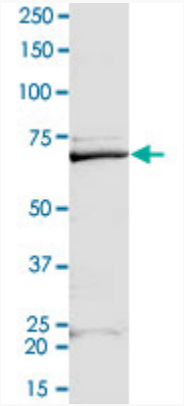
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| **Bio-activity** | 92 pmol/ug x min |
| **Molecular Mass** | 71.534 kDa |
| **Applications** | Functional Study<br>SDS-PAGE |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing |
| **Concentration** | 0.391 μg/μL |
| **Storage Buffer** | In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol) |

## GENE INFORMATION

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|---|---|
| **Gene Name** | ACVR1 activin A receptor, type I [ Homo sapiens ] |
| **Official Symbol** | ACVR1 |
| **Synonyms** | ACVR1; activin A receptor, type I; ACVRLK2; activin receptor type-1; ACVR1A; ALK2; SKR1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI; |
| **Gene ID** | 90 |
| **mRNA Refseq** | NM_001105 |
| **Protein Refseq** | NP_001096 |

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|---|---|
| **MIM** | 102576 |
| **UniProt ID** | Q04771 |
| **Result of activity analysis** |  |
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2 ug/lane SDS-PAGE Stained with Coomassie Blue

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