

# Recombinant Human ACVR1

Catalog No: #GP11220



Package Size: #GP11220-1 100ug

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## Description

Product Name	Recombinant Human ACVR1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 260-509 amino acids of human ACVR1
Target Name	activin A receptor type I
Other Names	FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2
Accession No.	Swissprot:Q04771Gene Accession:BC033867
Uniprot	Q04771
GeneID	90;
Storage	-20~-80°C, pH 7.6 PBS

## Background

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.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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