

Product datasheet for **TP307486**

Activin Receptor Type IA (ACVR1) (NM_001105) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human activin A receptor, type I (ACVR1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207486 representing NM_001105 Red =Cloning site Green =Tags(s)

MVDGVMILPVLIMIALPSPSMEDEKPKVNPCLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGC
FQVYEQGKMTCKTPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNFHLEVGLIILSVFAVCLLAC
LLGVALRKFRRNQRERLNPRDVEYGTIEGLITNVGDSTLADLLDHSCTSGSGSGLPFLVQRTVARQITL
LECVGKGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETLYNTVMLRHENILGFIASDMTSRHSSTQLW
LITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNILVKKNGQC
CIADLGLAVMHSQSTNQLDVGNPNRVGTRKRYMAPEVLDETIQVDCFDSYKRVDIWAFLVLEVARRMVS
NGIVEDYKPPFYDVPNDPSFEDMRKVVCVDQQRPNIPNRWFSPTLTSLAKLMKECWYQNP SARLTALR
IKKTLTKIDNSLDKLTDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	55 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_001096](#)

Locus ID: 90

UniProt ID: [Q04771](#), [D3DPA4](#)

RefSeq Size: 2952

Cytogenetics: 2q24.1

RefSeq ORF: 1527

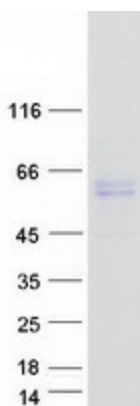
Synonyms: ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI

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. 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]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified ACVR1 protein (Cat# TP307486). The protein was produced from HEK293T cells transfected with ACVR1 cDNA clone (Cat# [RC207486]) using MegaTran 2.0 (Cat# [TT210002]).