

ACVR1 (Human) Recombinant Protein

Catalog # P8379

Size 2 x 10 ug

Specification

Product Description	Human ACVR1 (Q04771) recombinant protein with His-tag at C-terminal expressed in <i>Baculovirus</i> .
Amount	> 90% by SDS-PAGE
Sequence	MEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGC FQVYEQGKMTCK TPPSPGQAVECCQGDWCNRNITAQLPTKGKSFP GTQNFHLELEPKSCDKTHTCPPCPAPELLG GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTY RVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVM HEALHNHYTQKSLSLSPGKHHHHHHH.
Host	Viruses
Theoretical MW (kDa)	38.4
Form	Liquid
Preparation Method	<i>Baculovirus</i> expression system
Storage Buffer	Phosphate Buffered Saline (pH 7.4) and 10% glycerol
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — ACVR1

Entrez GeneID

[90](#)

Protein Accession#	Q04771
Gene Name	ACVR1
Gene Alias	ACTRI, ACVR1A, ACVRLK2, ALK2, FOP, SKR1, TSRI
Gene Description	activin A receptor, type I
Omim ID	102576 135100
Gene Ontology	Hyperlink
Gene 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]
Other Designations	TGF-B superfamily receptor type II activin A receptor, type II-like kinase 2 activin A type I receptor hydroxyalkyl-protein kinase serine/threonine-protein kinase receptor R1

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [TGF-beta signaling pathway](#)

Disease

- [Abortion](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Intracranial Aneurysm](#)
- [Narcolepsy](#)

- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Stroke](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)