

Activin A (ACVA) Active Protein | ACVA active protein

Active Activin A (ACVA)

CATALOG #
AAA149221

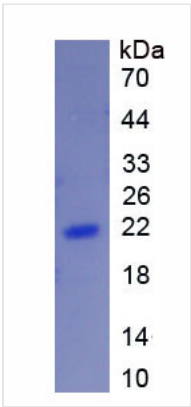
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

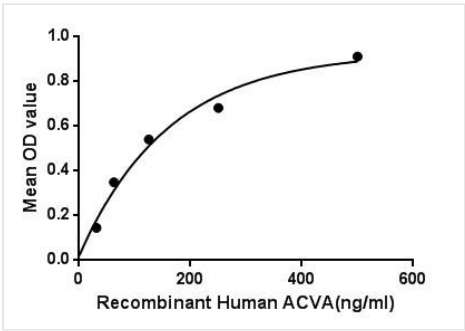
Activin A (ACVA); Active Activin A (ACVA); ACV-A; Activin Beta A Beta A Homodimer; ACVA active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 90%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Gly311-Ser426
Sequence Length	426
Applicable Applications for ACVA active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His-Tag
Isoelectric Point	9.3
Subcellular Location	Secreted
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. 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 degree 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.



SDS-PAGE



Activity

Figure. The binding activity of ACVA with ACVR1. Activin A (ACVA) is a dimer composed of two identical called activin betaA. Activin betaA and betaB are identical to the two beta subunits of inhibin. Activin enhances FSH biosynthesis and secretion, and participates in the regulation of the menstrual cycle. Many other functions have been found to be exerted by activin, including roles in cell proliferation, differentiation, apoptosis, metabolism, homeostasis, immune response, wound repair, and endocrine function. Besides, Activin A Receptor Type I (ACVR1) has been identified as an interactor of ACVA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ACVA and recombinant human ACVR1. Briefly, ACVA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to ACVR1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ACVA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of ACVA and ACVR1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for ACVA active protein	Endocrinology; Reproductive science; Hormone metabolism
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504699
NCBI GeneID	3624
NCBI Accession #	NP_002183.1
NCBI GenBank Nucleotide #	NM_002192.4
UniProt Accession #	P08476
Molecular Weight	Predicted MW: 14.2kDa Accurate MW: 15kDa
NCBI Official Full Name	inhibin beta A chain preproprotein
NCBI Official Synonym Full Names	inhibin subunit beta A
NCBI Official Symbol	INHBA
NCBI Official Synonym Symbols	EDF; FRP
NCBI Protein Information	inhibin beta A chain
UniProt Protein Name	Inhibin beta A chain
UniProt Gene Name	INHBA
UniProt Synonym Gene Names	EDF
UniProt Entry Name	INHBA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/active-protein/activin-a-acva/149221>