

Datasheet for ABIN4369364  
**ACVA Protein (AA 311-426)**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 µg
Target:	ACVA
Protein Characteristics:	AA 311-426
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

## Product Details

Brand:	ActiveMax®
Sequence:	AA 311-426
Characteristics:	This protein carries no "tag". The protein has a calculated MW of 13 kDa. The protein migrates as 14 kDa under reducing (R) condition, and 27 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

## Target Details

Target:	ACVA
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## Target Details

Alternative Name:	Activin A /INHBA ( <a href="#">ACVA Products</a> )
Background:	Activin and inhibin are two closely related protein complexes that have almost directly opposite biological effects. 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. Conversely inhibin down regulates FSH synthesis and inhibits FSH secretion. Activins are nonglycosylated homodimers or heterodimers of various $\beta$ subunits ( $\beta$ A, $\beta$ B, $\beta$ C, and $\beta$ E in mammals), while Inhibins are heterodimers of a unique $\alpha$ subunit and one of the $\beta$ subunits. Activin A is a widely expressed homodimer of two $\beta$ A chains. The $\beta$ A subunit can also heterodimerize with a $\beta$ B or $\beta$ C subunit to form Activin AB and Activin AC, respectively. The 14 kDa mature human $\beta$ A chain shares 100 % amino acid sequence identity with bovine, feline, mouse, porcine, and rat $\beta$ A.
Molecular Weight:	13.0 kDa
Pathways:	<a href="#">Hormone Transport</a> , <a href="#">Peptide Hormone Metabolism</a>

## Application Details

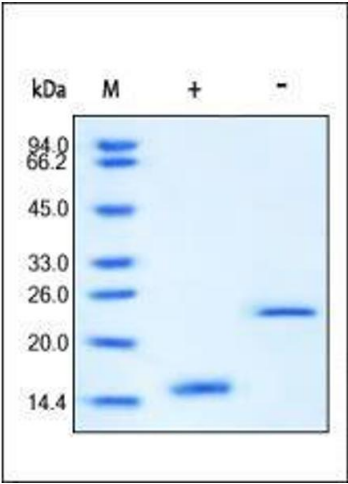
Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Buffer:	0.056 % TFA in 60 % ACN
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: 4-8°C for 1 year in lyophilized state 4-8°C for 1 month under sterile conditions after reconstitution -20°C to -70°C for 3 months under sterile conditions after reconstitution

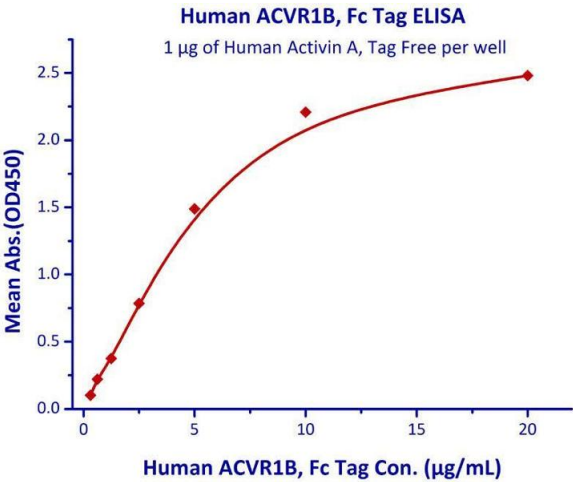
## Publications

Product cited in:	Iwaki, Nishitani, Mitsuzawa, Hyakushima, Sano, Kuroki: "The CD14 region spanning amino acids 57-64 is critical for interaction with the extracellular Toll-like receptor 2 domain." in: <b>Biochemical and biophysical research communications</b> , Vol. 328, Issue 1, pp. 173-6, (2005) ( <a href="#">PubMed</a> ).
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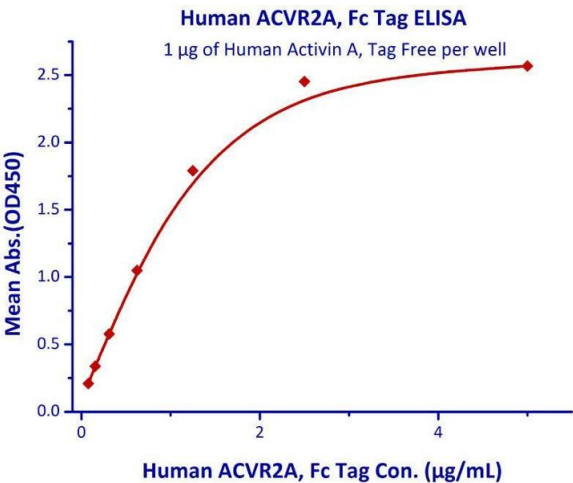
SDS-PAGE

**Image 1.** Human Activin A on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

**Image 2.** Measured by its binding ability in a functional ELISA. Immobilized Human Activin A, Tag Free with a linear range of 0.3-2.5 µg/mL.



Binding Studies

**Image 3.** Measured by its binding ability in a functional ELISA. Immobilized Human Activin A, Tag Free with a linear range of 0.08-0.625 µg/mL.