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# ACVA Protein (AA 21-426) (His tag)



## Image



#### Overview

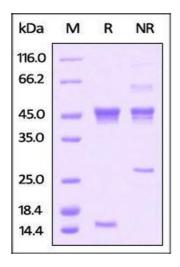
Quantity:	100 μg
Target:	ACVA
Protein Characteristics:	AA 21-426
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVA protein is labelled with His tag.
Application:	Functional Studies (Func)

#### **Product Details**

Sequence:	AA 21-426
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 13 kDa (mature) & 32 kDa (pro). As a result of glycosylation and Interchain disulfide bond, the protein migrates as 15 kDa (mature) and 43-48 kDa (pro) under reducing (R) condition, and 27 kDa (mature), 43-48 kDa (pro) and 60 kDa (pro & mature) under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

### **Target Details**

Target:	ACVA
Alternative Name:	Activin A (ACVA Products)
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 βA. Activin is
	produced in the gonads, pituitary gland, placenta, and other organs. The bioactivity of Activin A
	is regulated by a variety of mechanisms. In the ovarian follicle, activin increases FSH binding
	and FSH-induced aromatization, Activin is strongly expressed in wounded skin, and
	overexpression of activin in epidermis of transgenic mice improves wound healing and
	enhances scar formation, Activin also regulates the morphogenesis of branching organs such
	as the prostate, lung, and especially kidney. Activin A increased the expression level of type-I
	collagen suggesting that activin A acts as a potent activator of fibroblasts, Lack of activin
	during development results in neural developmental defects.
Molecular Weight:	13.0 kDa (mature) and 32.0 kDa (pro)
Pathways:	Hormone Transport, Peptide Hormone Metabolism
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



#### **SDS-PAGE**

**Image 1.** Human Latent Activin A, His Tag 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 90%.