

## Active Recombinant Human Activin A

Cat. No. INHBA-1920H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	<p>Activin is produced in the gonads, pituitary gland, placenta, and other organs: In the ovarian follicle, activin increases FSH binding and FSH-induced aromatization. It participates in androgen synthesis enhancing LH action in the ovary and testis. In the male, activin enhances spermatogenesis. Activin is strongly expressed in wounded skin, and overexpression of activin in epidermis of transgenic mice improves wound healing and enhances scar formation. Its action in wound repair and skin morphogenesis is through stimulation of keratinocytes and stromal cells in a dose-dependent manner. 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.</p>
<b>Molecular Mass</b>	<p>Recombinant human mature Activin A is a disulfide-linked homodimer of two 116 amino acid residue <math>\beta</math>A subunits. The mature <math>\beta</math>A monomer lacks a potential N-linked glycosylation site and has a calculated molecular mass of 13 kDa.</p>
<b>Activity</b>	Measured by its ability to induce hemoglobin expression in K562 cells.
<b>Purity</b>	> 95%, as determined by SDS-PAGE and visualized by silver stain.
<b>Endotoxin</b>	< 1.0 EU per 1

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	µg of the cytokine as determined by the LAL method.
<b>Format</b>	Lyophilized from a 0.2 µm filtered solution in 35% acetonitrile, 0.1% TFA containing 50 µg of bovine serum albumin per 1 µg of cytokine.
<b>Reconstitution</b>	It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 µg/mL.
<b>Storage</b>	Lyophilized samples are stable for up to six months at -20°C to -70°C.

## GENE INFORMATION

<b>Gene Name</b>	INHBA inhibin, beta A [ Homo sapiens ]
<b>Synonyms</b>	A-inhibin subunit; inhibin alpha subunit; inhibin, alpha; INHA; Inhibin A; Inhibin isoform A; activin A
<b>Gene ID</b>	3624
<b>mRNA Refseq</b>	NM_002192
<b>Protein Refseq</b>	NP_002183
<b>MIM</b>	147290
<b>UniProt ID</b>	P08476
<b>Chromosome Location</b>	7p15-p13

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**Function**

cytokine activity; follistatin binding; growth factor activity; hormone activity; identical protein binding; signal transducer activity

**The Activin dimer,  
from  
2ARV.pdbinhibin,  
beta A**



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