

Recombinant Human Activin INHBA protein, low endotoxin

Cat. No. INHBA-525H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human INHBA protein (Gly311-Ser426)(low endotoxin) carries no tag and was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	116
Description	<p>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 β subunits (βA, βB, βC, and βE in mammals), while Inhibins are heterodimers of a unique α subunit and one of the β subunits. Activin A is a widely expressed homodimer of two βA chains. The βA subunit can also heterodimerize with a βB or βC subunit to form Activin AB and Activin AC, respectively. The 14 kDa mature human βA chain shares 100% amino acid sequence identity with bovine, feline, mouse, porcine, and rat βA.</p>
Form	Lyophilized from 0.22 μ m filtered solution in 0.056% TFA in 60% ACN, 10%

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	trehalose.
Molecular Mass	The protein has a calculated MW of 13.0 kDa. the protein migrates as 14 kDa under reducing (R) condition, and 27 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 0.1 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	INHBA
Official Symbol	INHBA
Synonyms	INHBA; inhibin, beta A; inhibin, beta A (activin A, activin AB alpha polypeptide); inhibin beta A chain; Inhibin, beta-1; activin beta-A chain; FSH-releasing protein; erythroid differentiation factor; erythroid differentiation protein; follicle-stimulating hormone-releasing protein; EDF; FRP
Gene ID	3624

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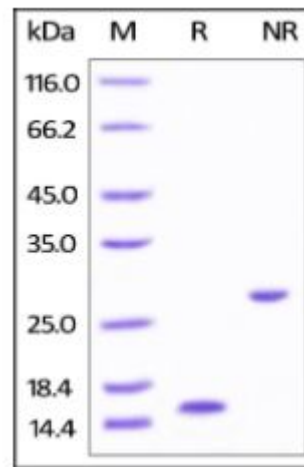
mRNA Refseq [NM_002192](#)

Protein Refseq [NP_002183](#)

MIM [147290](#)

UniProt ID [P08476](#)

**SDS-PAGE of
INHBA-525H**



Human Activin A, Tag Free, low endotoxin on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue.

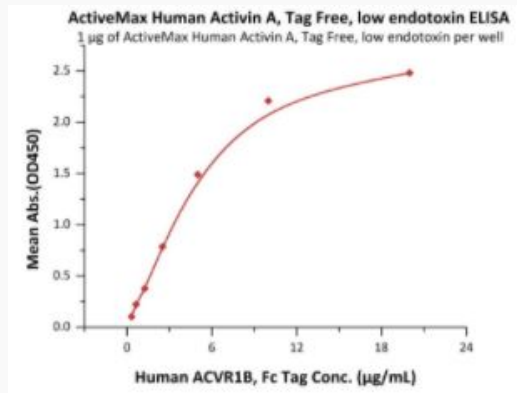
The purity of the protein is greater than 95%.

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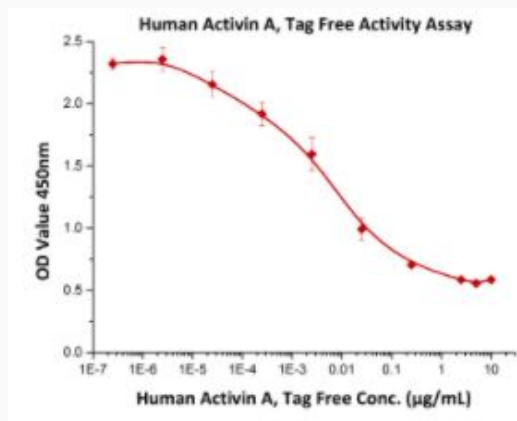
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**Bioactivity-ELISA of
INHBA-525H**




Immobilized Human Activin A, Tag Free, low endotoxin at 10 µg/mL (100 µL/well) can bind Human ACVR1B, Fc Tag with a linear range of 0.3-2.5 µg/mL (Routinely tested).


**Bioactivity-Cell
based assay of
INHBA-525H**



The bio-activity of Human Activin A, Tag Free, low endotoxin was determined by dose-dependent inhibition of the proliferation of MPC-11 cells. The EC50 for this effect is typically ≤ 9.5 ng/mL (Routinely tested).

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