

Inhibin beta A/Activin A Active Protein | INHBA active protein

Inhibin beta A/Activin A Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258193

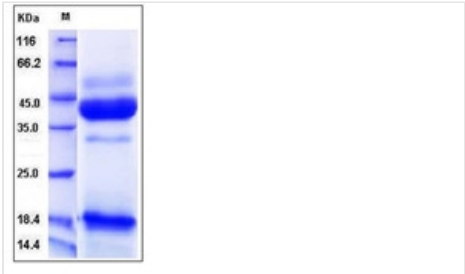
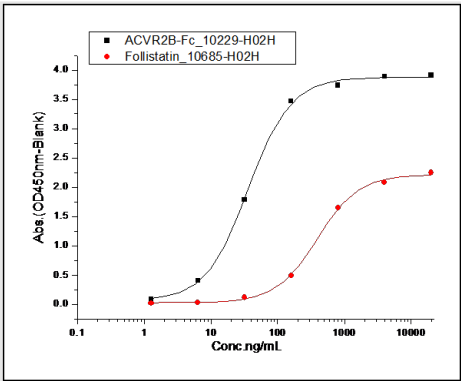
HOST
HEK293 Cells

PRODUCT SYNONYMS

Inhibin beta A/Activin A; Inhibin beta A/Activin A Protein; Mouse; Recombinant (His Tag); Mouse Inhibin beta A/INHBA/Activin A Protein (His Tag); inhibin; beta A; INHBA active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>88% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser42 4
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 21
Tag	C-His
Protein Construction	A DNA sequence encoding the pro form of mouse INHBA (NP_032406.1)(Met 1-Ser 424) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human ACVR2B at 10ug/mL (100uL/well) can bind biotinylated mouse INHBA-His. The EC50 of biotinylated mouse INHBA-His is 0.161ug/mL. 3. Immobilized mouse INHBA-his at 10ug/mL (100uL/well) can bind human Follistatin Protein. The EC50 of human Follistatin Protein is 0.39ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. 1. Immobilized human ACVR2B at 10 ug/mL (100 ul/well) can bind biotinylated mouse INHBA-His, The EC50 of biotinylated mouse INHBA-His is 0.161 ug/mL. 2. Immobilized mouse INHBA-his at 10 ug/mL (100 ul/well) can bind human Follistatin Protein, The EC50 of human Follistatin Protein is 0.39 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for INHBA active protein	Background: Activin and inhibin are two closely related protein complexes that have almost directly opposite biological effects. The activin and inhibin protein complexes are both dimeric in structure, and, in each complex, the two monomers are linked to one another by a single disulfide bond. Activin is composed of two beta subunits, betaA (activin A), betaB betaB (activin B), or betaA betaB (activin AB). Inhibin is composed of an alpha and one of two beta subunits, betaA (inhibin A) or betaB (inhibin B). Activins are produced in many cell types and organs, such as gonads, pituitary gland, and placenta. 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. Also, Activin plays a role in wound repair and skin morphogenesis. Activin is strongly expressed in wounded skin, and overexpression of activin in the 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 kidney. There is also evidence showed that lack of activin during development results in neural developmental defects.
Product Categories/Family for INHBA active protein	Early Mesodermal Lineage Markers
References	Tanimoto K, et al. (1992) Structure and sequence analysis of the human activin beta A subunit gene. DNA Seq. 2 (2): 103-10.Welt C, et al. (2002) Activins, inhibins, and follistatins: from endocrinology to signaling. A paradigm for the new millennium. Exp Biol Med. 227 (9): 724-52.Xu J, et al. (1995) Inhibin antagonizes inhibition of liver cell growth by activin by a dominant-negative mechanism. J Biol Chem. 270 (11): 6308-13.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The secreted recombinant mouse INHBA comprises 415 amino acids and has a calculated molecular mass of 46.5kDa. As a result of glycosylation, the apparent molecular mass of rmINHBA is approximately 18 & 43kDa corresponding to the mature inhibin beta A chain
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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.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-inhba-active-protein/inhibin-beta-a-activin-a/258193>