

Active Recombinant Human INHBA

Cat. No. INHBA-141H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active form Activin-A Human Recombinant produced in e.coli is a homodimeric, non-glycosylated, polypeptide chain containing 2 x 117 amino acids and having a molecular weight of 26.2kDa. The Active form Activin-A is purified by standard chromatographic techniques.
Species	Human
Source	E.coli
Description	The inhibin beta A subunit joins the alpha subunit to form a pituitary FSH secretion inhibitor. Inhibin has been shown to regulate gonadal stromal cell proliferation negatively and to have tumor-suppressor activity. In addition, serum levels of inhibin have been shown to reflect the size of granulosa-cell tumors and can therefore be used as a marker for primary as well as recurrent disease. Because expression in gonadal and various extragonadal tissues may vary severalfold in a tissue-specific fashion, it is proposed that inhibin may be both a growth/differentiation factor and a hormone. Furthermore, the beta A subunit forms a homodimer, activin A, and also joins with a beta B subunit to form a heterodimer, activin AB, both of which stimulate FSH secretion. Finally, it has been shown that the beta A subunit mRNA is identical to the erythroid differentiation factor subunit mRNA and that only one gene for this mRNA exists in the human genome.
Form	Lyophilized freeze dried powder. Human Activin-A was lyophilized from a concentrated 1mg/ml protein solution containing 0.02% TFA.

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Bio-activity	Biological activity is assessed by the ability to induce cytotoxicity of MPC-11 cells and was found to be 1-1.5 ng/ml corresponding to a specific activity of 666,667-1,000,000 Units/mg.
Molecular Mass	26.2kDa.
AA Sequence	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CECECP SHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYYDDGQN IHKKDIQNMI VEECGCS.
Purity	Greater than 95% as observed by SDS-PAGE.
Stability	Lyophilized Activin-A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Activin-A should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	Human INHBA protein should be reconstituted in distilled pyrogen free water to a concentration of 100ug /ml which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	INHBA inhibin, beta A [Homo sapiens (human)]
Official Symbol	INHBA
Synonyms	INHBA; inhibin, beta A; EDF; FRP; Inhibin, beta-1; OTTHUMP00000207260; FSH-releasing protein; erythroid differentiation factor; follicle-stimulating hormone-releasing protein; inhibin, beta A (activin A, activin AB alpha polypeptide); Activin beta-A chain;

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Erythroid differentiation protein; FSH-releasing protein	
Gene ID	3624
mRNA Refseq	NM_002192
Protein Refseq	NP_002183
MIM	147290
UniProt ID	P08476
Chromosome Location	7p15-p13
Pathway	ALK1 signaling events; Cardiac Progenitor Differentiation; Metabolism of proteins
Function	cytokine activity; growth factor activity; identical protein binding

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