Recombinant Human Activin-A

Cat. No. Activin-A-3121H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Activin-A
Species	Human
Source	Insect Cells
ProteinLength	426
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
Molecular Mass	47,442 Da

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Purity	>95% by SDS-PAGE & HPLC analyses
Notes	Small volumes of Activin-A recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	INHBA inhibin, beta A [Homo sapiens]
Official Symbol	INHBA
Synonyms	INHBA; EDF; FRP; inhibin beta A chain; Inhibin, beta-1; activin beta-A chain; FSH-releasing protein; erythroid differentiation factorerythroid differentiation protein; follicle-stimulating hormone-releasing protein; inhibin, beta A (activin A, activin AB alpha polypeptide)
Gene ID	3624
mRNA Refseq	NM_002192
Protein Refseq	NP_002183
MIM	147290
UniProt ID	P08476

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Chromosome Location	7p15-p13
Pathway	ALK1 signaling events, organism-specific biosystem; Cardiac Progenitor Differentiation, organism-specific biosystem
Function	cytokine activity; growth factor activity

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