Active Recombinant Human Activin A protein

Cat. No. Activin A-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Activin A was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	116 amino acid residues.
Description	Activin A is a TGF-β family member that exhibits a wide range of biological activities, including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in postmenopausal women have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF-β antagonist, follistatin. Activin A binds to the two forms of activin receptor type I (Act RI-A and Act RI-B) and two forms of activin receptor type II (Act RII-A and Act RII-B). Activins are homodimers or heterodimers of different β subunits. They are produced as precursor proteins with an amino terminal propeptide that is cleaved to release the C-terminal bioactive ligand.
Bio-activity	Determined by its ability to inhibit the proliferation of mouse MPC-11 cells. The expected ED50 is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10^5 units/mg.
Molecular Mass	26.0 kDa

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AA Sequence	GLECDGKVNI CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECPSHIAG TSGSSLSFHS TVINHYRMRG HSPFANLKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV EECGCS
Purity	Greater than 95% by SDS-PAGE gel and HPLC analyses.

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