

## Active Recombinant Human Activin A protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Activin A was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	116 amino acid residues.
<b>Description</b>	<p>Activin A is a TGF-<math>\beta</math> 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-<math>\beta</math> 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 <math>\beta</math> subunits. They are produced as precursor proteins with an amino terminal propeptide that is cleaved to release the C-terminal bioactive ligand.</p>
<b>Bio-activity</b>	Determined by its ability to inhibit the proliferation of mouse MPC-11 cells. The expected ED50 is $\leq 2.0$ ng/ml, corresponding to a specific activity of $\geq 5 \times 10^5$ units/mg.
<b>Molecular Mass</b>	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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