

## Active GMP Recombinant Human Activin A Protein

Cat. No. Activin A-01HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Activin A protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	<p>Activin (activins) Activin A is a secreted protein of the transforming growth factor (TGF) <math>\beta</math> family that controls the development of the embryonic axis into a functional prointestinal-derived tissue and mediates the growth and differentiation of a variety of cells. Various studies have shown that it induces the differentiation of pancreatic <math>\beta</math>-cells. It can exert more significant induction effects especially when combined with other factors. Inhibition of the activin signaling pathway can be applied to expand precursor cells, while activation of activin facilitates <math>\beta</math>-cell differentiation. These results suggest that the balance between pancreatic growth and differentiation can be achieved by the precise regulation of the activin signaling pathway. It has also been widely used in stem cell research to induce differentiated embryonic stem cells to form endoderm.</p>
<b>Form</b>	Lyophilized powder
<b>Endotoxin</b>	<20 EU/mg
<b>Bio-activity</b>	>5.0 x 10 <sup>4</sup> IU/mg

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<b>Purity</b>	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
<b>Storage Buffer</b>	10mM Phosphate-Buffered Saline (pH 7.2)
<b>Storage</b>	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
<b>Sterility</b>	Sterility
<b>Stability</b>	Avoid repeated freezing and thawing as much as possible.
<b>Instructions</b>	It is recommended that lyophilized GMP recombinant human Activin A be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

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