Active GMP Recombinant Human Activin A Protein

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

SPECIFICATION

Product Overview	Recombinant human Activin A protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	Activin (activins) Activin A is a secreted protein of the transforming growth factor (TGF) β 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 β-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 β-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.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>5.0 x 10^4 IU/mg

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Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4℃ for 7-10 days; for long-term storage, please store at -20℃ after dispensing.
Sterility	Sterility
Stability	Avoid repeated freezing and thawing as much as possible.
Instructions	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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