

# Human Activin A Protein; His Tag

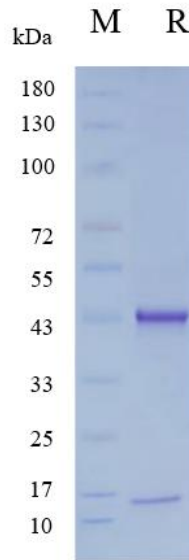
## Product Information

<b>Product Name</b>	Human Activin A Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87616RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87616RP-1000 / 1 mg</b>

## Protein Information

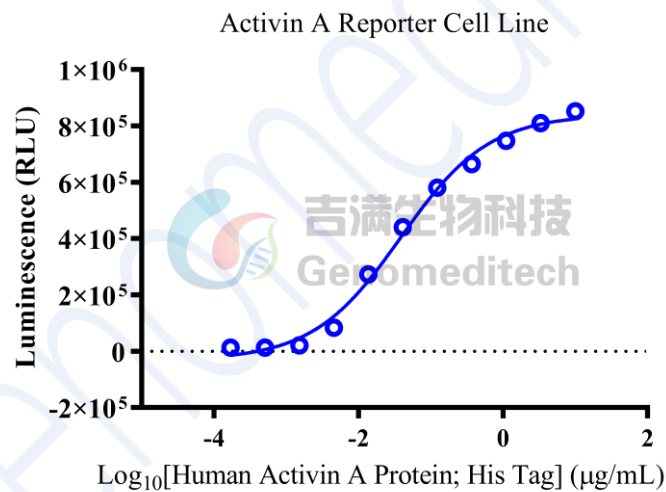
<b>Alternative Names</b>	Activin A, INHBA
<b>Source</b>	Human Activin A Protein; His Tag (GM-87616RP) is expressed from human 293 cells (HEK-293). It contains AA Ser 21 - Ser 426 (Accession # AAH07858.1). This protein carries a His tag at the N-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	13.0 kDa (mature) and 32.0 kDa (pro)
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>Activin A protein is a cytokine that plays an important role in regulating processes such as cell proliferation, cell differentiation, and apoptosis. Activin A protein mainly interacts with Activin receptors to activate signal transduction pathways, influencing cell transcription, translation, and function.</p> <p>Activin A primarily interacts with Activin type I and II receptors, activating the Smad signaling pathway to regulate the transcription and translation of cell genes, influencing cell function and fate. It also plays important roles in various cell types, including embryonic stem cells, mature cells, and cells in various tissues and organs.</p> <p>Research suggests that abnormal expression of Activin A protein may be associated with various diseases such as inflammatory diseases, tumors, and skeletal disorders. Therefore, Activin A protein could be an important research target to elucidate its role in the development of diseases and provide new targets for the treatment of related diseases.</p>

## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-CELL BASE



Activin A Reporter Cell Line	
EC50	0.03863

Human Activin A Protein; His Tag (Catalog # GM-87616RP) was added into Activin A Reporter Cell Line (Catalog # GM-C26082) and stimulates signals.