

# Human Activin B Protein; His Tag

## Product Information

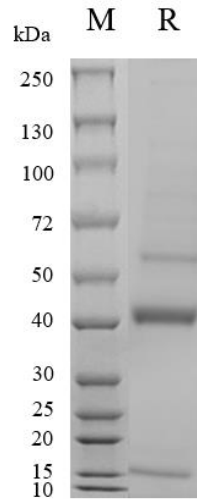
<b>Product Name</b>	Human Activin B Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87672RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87672RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	inhibin beta B, INHBB, MGC157939
<b>Source</b>	Human Activin B Protein; His Tag (GM-87672RP) is expressed from human 293 cells (HEK-293). It contains AA Ser29-Ala407 (Accession # P09529). This protein carries a His tag at the C-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>	13.1 kDa (mature) and 29.0 kDa (pro)
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>Activin B protein is a protein encoded by the ACTB gene and belongs to the TGF-<math>\beta</math> superfamily. Activin B protein is widely expressed in humans and other animals, with various physiological functions.</p> <p>Activin B protein mainly plays a role in multiple biological processes such as embryonic development, reproductive system, skeletal development, and immune system. During embryonic development, Activin B protein is involved in regulating organ formation, tissue differentiation, and cell proliferation. In the reproductive system, Activin B protein, together with inhibin, regulates the secretion of male and female hormones in the testes and ovaries, playing an important role in the growth and differentiation of reproductive cells. Additionally, Activin B protein is also involved in regulating the differentiation of bone cells and skeletal development.</p> <p>In the immune system, Activin B protein may participate in regulating inflammatory responses and the activation of immune cells. Research indicates that Activin B protein may also play a role in cancer development, such as promoting the proliferation and metastasis of tumor cells.</p>

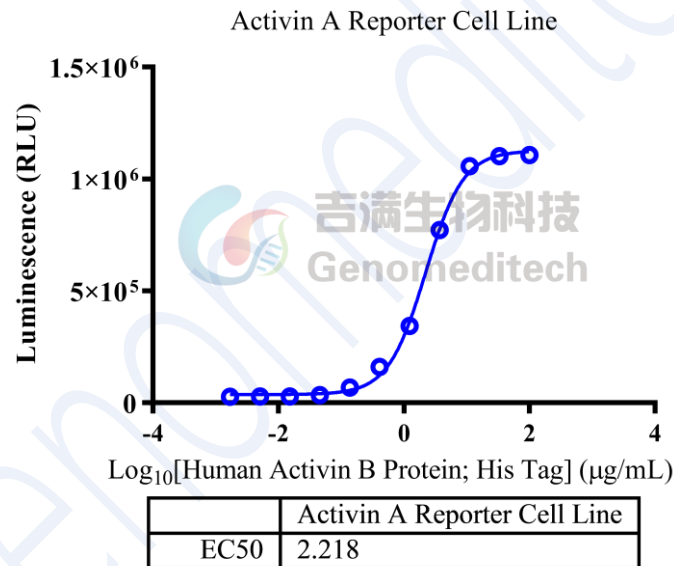
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## SDS-PAGE



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



Human Activin B Protein; His Tag (Catalog # GM-87672RP) was added into Activin A Reporter Cell Line (Catalog # GM-C26082) and stimulates signals.