

PRODUCT INFORMATION

**GMP® Human Activin A Protein, Tag Free, E. coli**

v. 250301

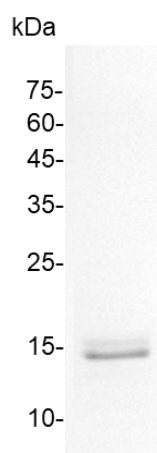
<b>Catalog number</b>	C01193-GMP-1000
<b>Package</b>	1 mg
<b>Description</b>	<p>Activin and Inhibin are members of the TGF-beta superfamily of cytokines and are involved in a wide range of biological processes including tissue morphogenesis and repair, fibrosis, inflammation, neural development, hematopoiesis, reproductive system function, and carcinogenesis. Activin A is strongly expressed in wounded skin, and overexpression of Activin A in epidermis of transgenic mice improves wound healing and enhances scar formation. Activin A also regulates the morphogenesis of branching organs such as the prostate, lung, and kidney. There is also evidence showed that lack of Activin A during development results in neural developmental defects.</p>
<b>Species of Origin</b>	Human
<b>Expression System</b>	<i>Escherichia coli</i>
<b>Sequence</b>	Gly311-Ser426
<b>Endotoxin level</b>	<0.05 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	<p>Measure by its ability to inhibit the proliferation of mouse MPC-11 cells. The ED<sub>50</sub> for this effect is &lt;10 ng/mL. The specific activity of recombinant human Activin A is approximately &gt;1.0 x 10<sup>3</sup> IU/mg.</p>
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.
<b>Mycoplasma</b>	Not detected
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	<p>It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.</p>
<b>Stability &amp; Storage</b>	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20°C for 12 months in lyophilized state from date of receipt.</li> <li>-20°C or -80°C for 1 month under sterile conditions after reconstitution.</li> </ul> <p>Avoid repeated freeze/thaw cycles.</p>

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**Manufacturing  
Specifications**

Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

- Animal-free reagent and laboratory
  - Manufactured and tested under GMP guideline
  - Testing and traceability of raw material
  - Records of the maintenance and equipment calibration
  - Personnel training records
  - Batch-to-batch consistency
  - Documentation of QA control and process changes
  - Manufactured and tested under an ISO 13485:2016 certified quality management system
  - Stability monitor of product shelf-life
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SDS-PAGE analysis of GMP® Activin A, Human

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*For Research Use Only. Not for use in diagnostic or therapeutic procedures.*