

**Recombinant Mouse Activin A Protein**

v. 240801

|                                |   |
|--------------------------------|---|
| <b>Catalog number</b>          | C02097-1MG  |
| <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 is strongly expressed in wounded skin, and overexpression of activin in epidermis of transgenic mice improves wound healing and enhances scar formation. Activin also regulates the morphogenesis of branching organs such as the prostate, lung, and kidney. There is also evidence showed that lack of activin during development results in neural developmental defects.</p> |
| <b>Source</b>                  | <i>Escherichia coli</i>   |
| <b>Sequence</b>                | <p>MGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTS<br/>       GSSLSFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQ<br/>       NMIVEECGCS with polyhistidine tag at the C-terminus</p>  |
| <b>Endotoxin level</b>         | <0.1 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.   |
| <b>Form</b>                    | Lyophilized   |
| <b>Storage Buffer</b>          | Lyophilized from a solution containing 0.1% sarkosyl in 1X PBS, pH 8.0.   |
| <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 200 µg/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>   |



SDS-PAGE analysis of recombinant mouse Activin A

---

*For research use only.*