

## PRODUCT INFORMATION

**Activin A, Human**

<b>Catalog number</b>	C01119-5UG / C01119-20UG / C01119-100UG
<b>Package</b>	5 µg / 20 µg / 100 µg
<b>Description</b>	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.
<b>Source</b>	<i>Escherichia coli</i>
<b>Sequence</b>	MGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSG SSLSFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQN MIVEECGCS with polyhistidine tag at the C-terminus
<b>Endotoxin level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Activity</b>	Measure by its ability to induce hemoglobin expression in K562 cells. The ED <sub>50</sub> for this effect is <0.85 ng/mL. The specific activity of recombinant human IGF-I is approximately >1.4 x 10 <sup>3</sup> IU/mg.
<b>Purity</b>	>95% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Formulation</b>	The protein was lyophilized from a solution containing 0.1% sarkosyl in 1X PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Note</b>	Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant human Activin A

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