

Catalog number	C01119-GMP-1000
Package	1 mg
Description	<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>
Expression System	<i>Escherichia coli</i>
Species of Origin	Human
Affinity Tag	His Tag (C-term)
Sequence	<p>MGLECDGKVNICKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTS GSSLSFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQ NMIVEECGCS with polyhistidine tag at the C-terminus</p>
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	<p>Measure by its ability to inhibit the proliferation of mouse MPC-11 cells. The ED₅₀ for this effect is <10 ng/mL. The specific activity of recombinant human Activin A is approximately >1.0 x 10³ IU/mg.</p>
Purity	>95% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS containing 0.1% sarkosyl, pH 8.0.
Reconstitution	<p>It is recommended to reconstitute the lyophilized protein in sterile H₂O 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>
Stability & Storage	This product is stable after storage at:

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- -20°C for 12 months in lyophilized state from date of receipt.
 - -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Specification

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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Reference

1. Bloise E. et al. (2019) *Physiol Rev.* 99,1: 739-780.
 2. Gressner OA. (2011) *Vitam Horm.* 85: 59-77.
 3. de Kretser DM. et al. (2012) *Mol Cell Endocrinol.* 359,1-2: 101-6.
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kDa

75-
60-
45-
35-
25-
17-
11-



SDS-PAGE analysis of GMP® Activin A, Human

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