

**Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived)**  
**Catalog # PBG10505****Specification**

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**Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived) - Product Information****Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived) - Additional Information****Description**

Activin A is a TGF- $\beta$  family member that exhibits a wide range of biological activities including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in postmenopausal women have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF- $\beta$  antagonist, follistatin. Human/Murine/Rat Activin A is a 26.0 kDa disulfide-linked homodimer of two  $\beta$ A chains, each containing 116 amino acid residues.

**Biological Activity**

The  $ED_{50}$  as determined by its ability to inhibit the proliferation of murine MPC-11 cells is  $\leq 2.0$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^5$  units/mg.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$  EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived) is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Animal-Free Recombinant Human/Murine/Rat Activin A (E.coli-derived) - Images**