

**Activin A**  
**Catalog # PVGS1696****Specification**

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**Activin A - Product Information**

Primary Accession [P08476](#)  
**Species**  
Human

**Sequence**  
Gly311-Ser426

**Purity**  
> 95% as determined by Bis-Tris PAGE

**Endotoxin Level**  
Less than 0.1EU per µg by the LAL method.

**Biological Activity**  
Immobilized Activin A, Human (Cat.No.: Z03814) at 1 µg/ml can bind Human Activin RIIB, His Tag.  
Activin A, Human (Cat.No.: Z03814) can inhibit proliferation of MPC-11 cells.

**Expression System**  
HEK293

**Theoretical Molecular Weight**  
12.97 kDa

Formulation **Lyophilized from 0.22 µm filtered solution in 4 mM HCl.**

**Reconstitution**  
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 4mM HCl.

**Storage & Stability**  
Upon receiving, the lyophilized product remains stable up to 6 months at -20 °C or below as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

**Activin A - Additional Information**

**Gene ID** 3624

**Other Names**  
Inhibin beta A chain, Activin beta-A chain, Erythroid differentiation protein, EDF, INHBA

**Target Background**  
Activin-A, a member of the TGF-β superfamily, has fundamental roles in embryonic development, stem cell maintenance and differentiation, haematopoiesis, cell proliferation, and tissue fibrosis. It

signals through two type I and two type II receptors, activating kinase activity, phosphorylating SMAD2 and 3 intracellular signaling mediators, forming a complex with SMAD4, and translocating to the nucleus to regulate gene expression.

## **Activin A - Protein Information**

**Name** INHBA

### **Function**

Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition.

### **Cellular Location**

Secreted.

## **Activin A - 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](#)

## **Activin A - Images**