

Product datasheet

Recombinant rat Activin A protein (Animal Free)  
ab187233

2 Images

Description

<b>Product name</b>	Recombinant rat Activin A protein (Animal Free)	
<b>Biological activity</b>	The activity is determined by the ability to induce cytotoxicity of MPC-11 cells and is typically less than 2 ng/mL.	
<b>Purity</b>	> 95 % SDS-PAGE. The purity of ab187233 is determined under reducing and non-reducing conditions.	
<b>Endotoxin level</b>	<=1.000 Eu/µg	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">P18331</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	Yes	
<b>Nature</b>	Recombinant	
<b>Species</b>	Rat	
<b>Sequence</b>	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CEGECPSHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYDDGQN IIKKDIQNM VEECGCS	
<b>Predicted molecular weight</b>	26 kDa	
<b>Amino acids</b>	309 to 424	
<b>Additional sequence information</b>	Mature non-glycosylated homodimer, containing two 117 amino acid chains.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab187233** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies
	SDS-PAGE
	HPLC
<b>Form</b>	Lyophilized

## Additional notes

This product is produced with no animal-derived raw products, animal free equipment and animal free protocols.

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at -20°C long term. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

Sterile filtered, with no additives.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water, which can then be further diluted to other aqueous solutions.

## General Info

### Function

Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by the pituitary gland. 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. Inhibins appear to oppose the functions of activins.

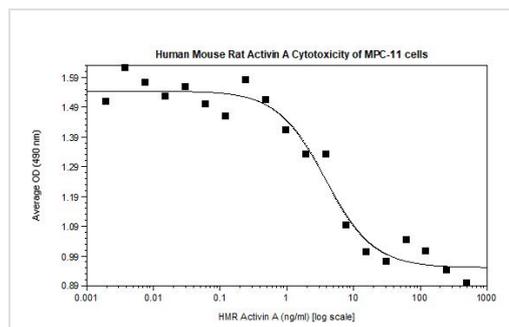
### Sequence similarities

Belongs to the TGF-beta family.

### Cellular localization

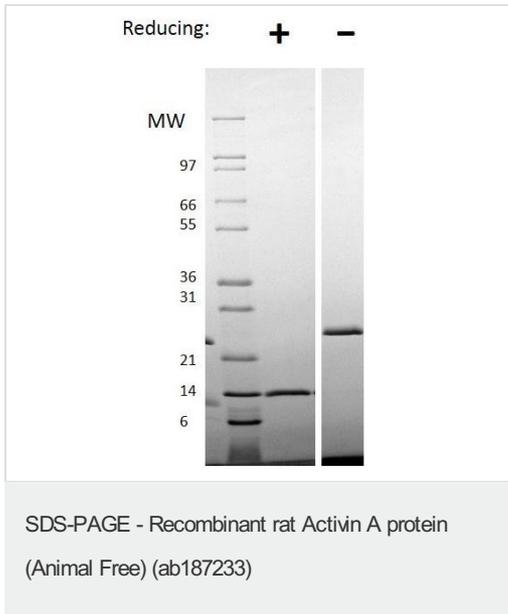
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## Images



Functional analysis of ab187233

Functional Studies - Recombinant rat Activin A protein (Animal Free) (ab187233)



SDS PAGE analysis of ab187233 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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