

Product datasheet

Recombinant human/mouse/rat Activin A protein ab151687

[3 Images](#)

Description

Product name	Recombinant human/mouse/rat Activin A protein
Biological activity	The activity is determined by the ability to induce cytotoxicity of MPC-11 cells and is typically less than 2 ng/mL. Corresponding to a specific activity of 5 x 10 ⁵ units/mg.
Purity	>= 95 % SDS-PAGE. Purity is typically >95% as determined by HPLC, Reducing and Non-reducing SDS-PAGE.
Endotoxin level	<=1.000 Eu/μg
Expression system	Escherichia coli
Accession	<u>P08476</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CEGECPSHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYYDDGQN IIKKDIQNMI VEECGCS
Predicted molecular weight	26 kDa
Amino acids	311 to 426
Additional sequence information	Non-glycosylated homodimer, containing two 117 amino acid chains. Activin A is a homodimer of two beta A chains and is not biologically active until the N terminal propeptide is cleaved from each.
Description	Recombinant human Activin A protein

Specifications

Our **Abpromise guarantee** covers the use of **ab151687** in the following tested applications.

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

Applications	Functional Studies
	SDS-PAGE

HPLC

Form Lyophilized

Additional notes This product shares 100% homology with amino acids 309 - 424 of Rat and Mouse Activin A.

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C.

Constituent: 0.02% Trifluoroacetic acid

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. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

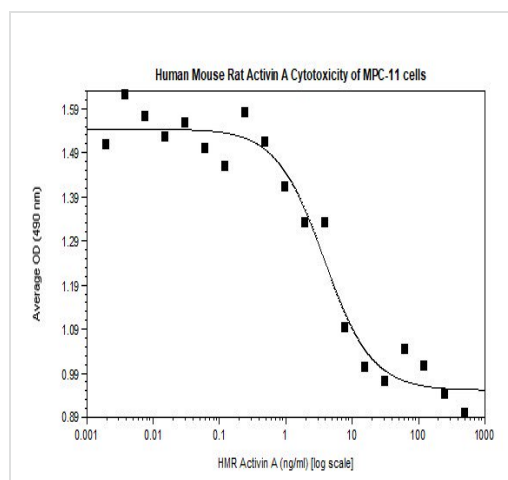
General Info

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.

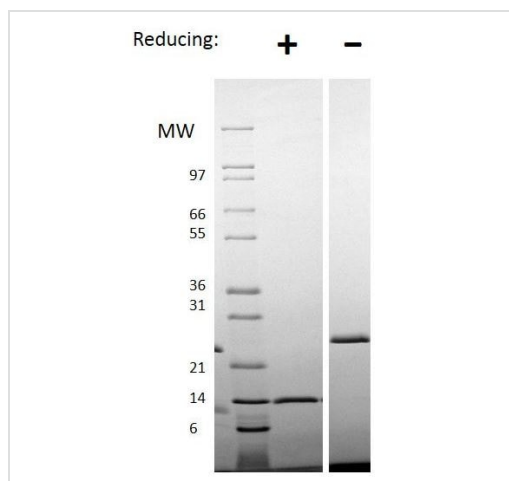
Cellular localization Secreted.

Images



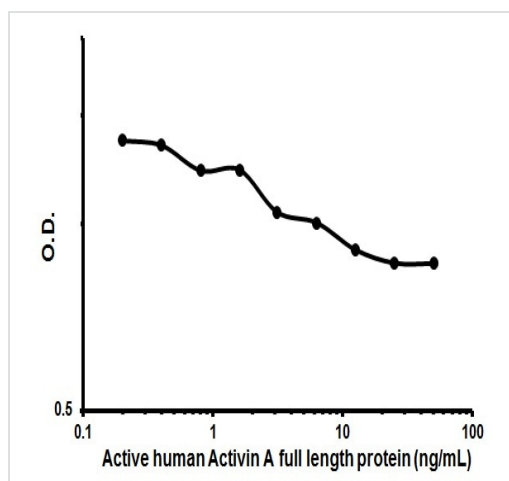
Functional analysis of ab151687

Functional Studies - Recombinant human/mouse/rat
Activin A protein (ab151687)



SDS PAGE analysis of ab151687 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

SDS-PAGE - Recombinant human/mouse/rat Activin A protein (ab151687)



Induction of cytotoxicity in MPC-11 cells using ab151687. Assays were carried out in duplicate.

Functional Studies - Recombinant human/mouse/rat Activin A protein (ab151687)

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

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