

Recombinant Rat Activin A

CATALOG #:	4726-10	10 µg
	4726-100	100 µg
	4726-1000	1 mg
ALTERNATE NAMES:	Inhibin beta-1, FRP, FSH-releasing protein	
SOURCE:	<i>E. coli</i>	
PURITY:	≥95% by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm	
ENDOTOXIN LEVEL:	≤ 1 EU/µg protein	
MOL. WEIGHT:	26.2 kDa	
FORMULATION:	Recombinant rat Activin A is lyophilized with 0.02% TFA.	

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.

STORAGE CONDITIONS:

Lyophilized product is very stable at -20°C. 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.

DESCRIPTION:

Activin A is a member of the TGFbeta family of proteins produced by many cell types throughout development. Activins interact with Type I and Type II serine/threonine kinases to signal to SMAD proteins to regulate a variety of functions, including cell proliferation, differentiation, wound healing, apoptosis, metabolism, etc. Activin A is a homodimer of two beta A chains and is not biologically active until the N terminal propeptide is cleaved from each. Rat Activin A has 100% amino acid sequence identity to human, mouse, porcine, bovine and feline proteins. Recombinant rat Activin A is a non-glycosylated homodimer, containing two 117 amino acid chains, with a total molecular weight of 26.2 kDa.

BIOLOGICAL ACTIVITY:

The activity is determined by the ability to induce cytotoxicity of MPC-11 cells and is typically less than 2 ng/mL.

AA Sequence:

MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CECECP SHIA
GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYYDDGQN
IIKKDIQNMI VEECGCS

RELATED PRODUCTS:

- Activin A, human recombinant (Cat. No. 4724-10, -100, -1000)
- Activin A, mouse recombinant (Cat. No. 4725-10, -100, -1000)

FOR RESEARCH USE ONLY! Not to be used on humans.