

INHBA

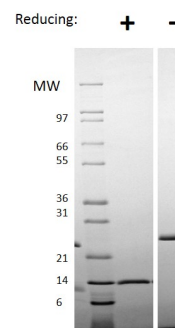
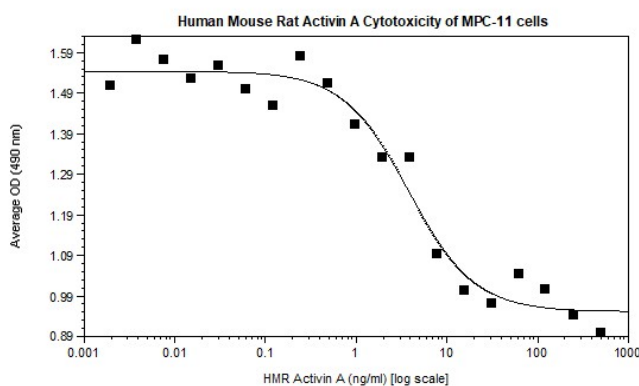
Recombinant Human/Mouse/Rat Activin A, Animal Free

Catalog No.	CS359A-AF CS359B-AF CS359C-AF CS359D-AF	Quantity:	2 µg 10 µg 1 mg 100 µg
Alternate Names:	Inhibin beta-1, FRP, FSH-releasing protein		
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. Human, mouse, rat, porcine, bovine and feline Activin A have 100% amino acid sequence identity. Activin A is a non-glycosylated homodimer, containing two 117 amino acid chains.		
Gene ID:	3624 human		
UniProt ID:	P08476 human		
Source:	<i>E. coli</i> Manufactured without Animal-derived products, in an Animal Free facility.		
Molecular Weight:	Dimer, 13.1/26.2 kDa		
Formulation:	Sterile filtered, lyophilized aqueous solution containing 0.1% TFA.		
Purity:	≥ 95% determine reducing and non-reducing SDS-PAGE.		
Endotoxin Level:	≤ 1 EUs/µg, determined by kinetic LAL analysis.		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by the ability to induce cytotoxicity MPC-11 cells.		
Specific Activity:	≥ 1.0 x 10 ⁵ units/mg The specific activity of Human/Mouse/Rat Activin A is approximately 1.2 IU/µg, which is calibrated against recombinant human Activin A WHO International Standard (NIBSC code: 91/626).		
Amino Acid Sequence:	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CECECP SHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYYDDGQN IIKKDIQNMI VEECGCS		
Reconstitution:	Centrifuge the vial prior to opening. Reconstitute with sterile water at 0.1 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. Do not vortex. Further dilution should be made into a solution containing a carrier protein such as 0.1% BSA.		



Storage & Stability:

Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. **Avoid repeated freeze-thaw cycles.**



Human Activin

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human Activin A is a homodimer with a predicted MW of 26.2 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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