

INHBA

Recombinant Human/Mouse/Rat Activin A

Catalog No.	CS359A	Quantity:	2 µg
	CS359B		10 µg
	CS359C		1 mg
	CS359D		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: *E. coli*

Molecular Weight: Dimer, 13.1/26.2 kDa

Formulation: Sterile filtered, lyophilized aqueous solution containing 0.1% TFA.

Purity: ≥ 95% determined by reducing and non-reducing SDS-PAGE.

Endotoxin Level: ≤ 1 EUs/µg, determined by kinetic LAL analysis.

Biological Activity: ED₅₀ ≤ 10 ng/ml, determined by the ability to induce cytotoxicity MPC-11 cells.

Specific Activity: ≥ 1.0 x 10⁵ 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
IHKDIQNMI VEECGCS

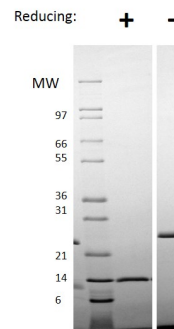
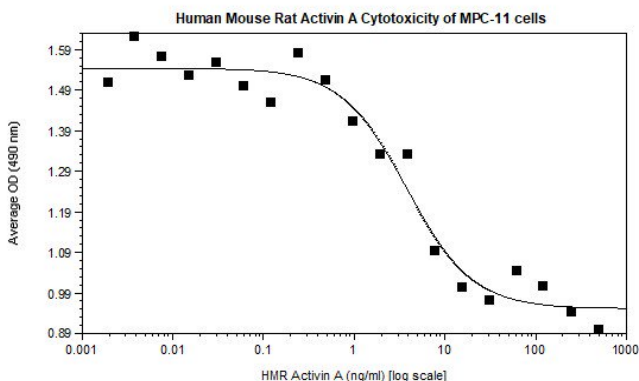
Reconstitution: **Centrifuge the vial prior to opening.** Reconstitute with sterile water at 0.1 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. **Do not vortex.** Further dilution should be made into a solution containing a carrier protein 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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