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32-12007: Rat Activin A

Gene : Acvr1b
Gene ID : 29381
Uniprot ID : P80202
Alternative Name : Activin receptor type IB, ALK-4, Activin receptor-like kinase 4

Description

Source: Genetically modified E.coli.
Predicted MW: Dimer, 13.1/26.2 kDa (117/234 aa)
Activin A is a member of the transforming growth factor beta (TGF-beta) family of proteins and functions to stimulate follicle-stimulating hormone (FSH) secretion. Activins are produced in many tissue types including the skin, gonads, lungs, and pituitary gland. Activins interact with receptor type I and type II serine/threonine protein kinases, to activate SMAD signaling and regulate diverse cellular functions, such as cell proliferation, differentiation, wound healing, apoptosis, and metabolism. Activin A is a homodimer comprised of two activin beta A chains. Cleavage of the N-terminal propeptide renders the Activin protein biologically active. Human Activin A shares 100% amino acid sequence identity with mouse, rat, porcine, bovine, and feline Activin A proteins.

Product Info

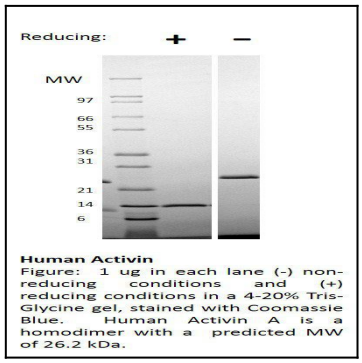
Amount :	10 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CEGECPSHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKLRPM SMLYYDDGQN IIKKDIQNMI VEECGCS

Application Note

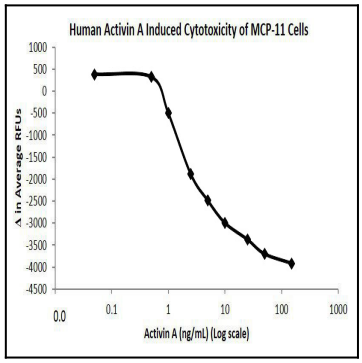
Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Biological Activity was determined by Cytotoxicity of MPC-11 cells at <=10 ng/mL; >= 1.0 x 10^5 units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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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.



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