

Catalog Number: HZ-1138-GMP

Data Sheet



Animal Component-Free

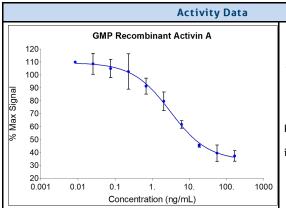
Human cell expressed

Tag-Free

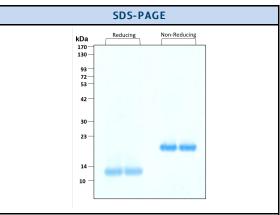
Endotoxin Free

Product Description				
Animal-free Recombinant Human Activin A is a member of the TGF beta superfamily, expressed from human 293 cells as disulfide linked homodimer with an apparent molecular mass of 25 kDa. This cytokine is produced in a serum-free, chemically defined media.				
Alternative Names Activin A, Activin beta A chain, EDF, FRP, INHBA, Inhibin beta A chain, inhibin, beta A				
Accession Number	P08476			
Source	Source Human Embryonic Kidney cells (HEK293). HEK293-derived Activin A protein			
Adventitious Virus	Adventitious Virus Master Cell Bank tested Negative for Adventitious Viruses			

Specifications					
Test	Method	Specification			
Activity	Dose-dependent inhibition of proliferation of the MPC-11 cell line (mouse plasmacytoma cell line).	0.5-3.5 ng/mL			
Molecular Mass	SDS-PAGE	13kDa reduced, 22 kDa non-reduced, homodimer, non- glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<0.1 EU/ μ g			
Mycoplasma	PCR	Not Detected			



GMP Recombinant human Activin A (HZ-1138-GMP) causes dose-dependent inhibition of proliferation in the Mouse plasmacytoma (MPC-11) cell line. Proliferation of the MPC-11 cell line was assessed using Promega CellTiter 96®. MPC-11 cells were treated with increasing concentrations of GMP recombinant human Activin A for 72 hrs hours before addition of CellTiter96® reagent. The



Purity of recombinant human Activin A was determined by SDS- polyacrylamide gel electrophoresis. The protein was resolved in an SDS- polyacrylamide gel in reducing and non-reducing conditions and stained using Coomassie blue.

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Proteintech Group, Inc.

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Preparation				
Shipping Temperature				
Formulation	Formulation 1x PBS, See Certificate of Analysis for details			
Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.				

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
	Avoid repeated freeze-thaw cycles.		

Proteintech GMP Quality Policy HumanKine® GMP Proteins

Invitro recombinant protein production can be prone to variability due to various reasons ranging from quality of raw materials to inconsistency in the process. Therefore, HumanKine®, a proteintech brand's GMP proteins are produced and tested under an ISO 13485 certified quality management system in a clean room facility. Proteintech manufactures the GMP HumanKine® products according to the applicable sections in the following documents: USP Chapter 1043 (Ancillary Materials for Cell, Gene, and Tissue-Engineered Products, USP Chapter 92 (Growth Factors and Cytokines Used in Cell Therapy Manufacturing), WHO TRS, No. 822, 1992 Annex 1 (Good Manufacturing Practices for Biological Products), Ph. Eur. General Chapter 5.2.12, and EudraLex – Volume 4 – Part IV (Guidelines on GMP specific to ATMPs). Proteintech strives to achieve the utmost quality GMP raw material ensuring all applicable guidelines are taken into consideration.

The QMS is built to provide our customers with consistent and pure product delivered by documented processes, qualified personnel, validated processes, qualified equipment, qualified vendors, and a stringent final product release process. Although the final product release process is important, Proteintech performs in-process QC steps after each major manufacturing stage. Production records and facilities may be available for an inspection by approved personnel.

Our GMP policy covers all the aspects of production; from raw materials, facility, equipment, and Instruments to training and personal hygiene of staff. It also guarantees that the process is explicit, validated and well documented for transparency and traceability.

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