## **Biotinylated Human Activin A Protein**

## Cat. No. ACV-HM401B

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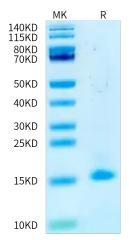
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Description	
Source	Recombinant Biotinylated Human Activin A Protein is expressed from HEK293 with Avi tag at the C-terminus.
	It contains Gly311-Ser426.
Accession	P08476
Molecular Weight	The protein has a predicted MW of 14.78 kDa. Due to glycosylation, the protein migrates to 15-18 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
Formulation and S	Storage
Formulation	Lyophilized from 0.22 μm filtered solution in 4mM HCL. Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in 4mM HCL.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Activin-A, a member of the TGF-β superfamily, Extensive research over the past decades illuminated fundamental roles for activin-A in essential biologic processes, including embryonic development, stem cell maintenance and differentiation, haematopoiesis, cell proliferation and tissue fibrosis. Activin-A signals through two type I and two type II receptors which, upon ligand binding, activate their kinase activity, phosphorylate the SMAD2 and 3 intracellular signaling mediators that form a complex with SMAD4, translocate to the nucleus and activate or silence gene expression.

## Assay Data

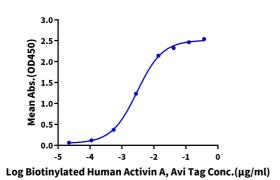




Biotinylated Human Activin A on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**ELISA Data** 

Biotinylated Human Activin A, Avi Tag ELISA 0.1µg Human Activin RIIB, His Tag Per Well



Immobilized Human Activin RIIB, His Tag at  $1\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human Activin A, Avi Tag with the EC50 of 3.0ng/ml determined by ELISA.