

Human Activin B Protein

Cat. No. ACV-HM00B



Description

Source	Recombinant Human Activin B Protein is expressed from HEK293 without tag. It contains Gly293-Ala407.
Accession	P09529
Molecular Weight	The protein has a predicted MW of 12.81 kDa. Due to glycosylation, the protein migrates to 14-15 kDa under reduced (R) condition, and 24-30 kDa under Non reduced (N) condition based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

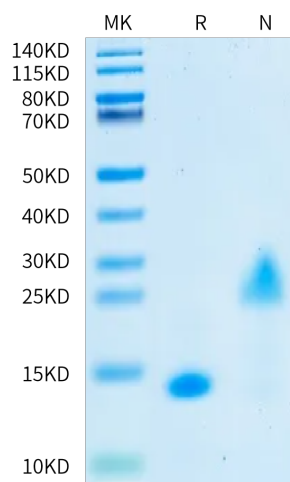
Formulation	Lyophilized from 0.22 µm filtered solution in 4mM HCL. Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The gene inhibin subunit beta B (INHBB), also named Activin B encodes the inhibin β B subunit, which is involved in forming protein members of the transforming growth factor- β (TGF- β) superfamily. The TGF- β superfamily is extensively involved in cell proliferation, differentiation, adhesion, movement, metabolism, communication, and death.

Assay Data

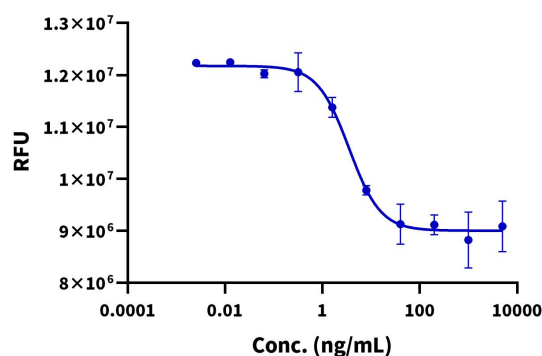
Bis-Tris PAGE



Human Activin B Protein on Bis-Tris PAGE under reduced (R) condition and Non reduced (N) condition. The purity is greater than 95%.

Cell Based Assay

Recombinant Human Activin B Bioactivity



Measured by its ability to inhibit proliferation of MPC-11 cells. The ED50 for this effect is < 10 ng/mL.

Human Activin B Protein

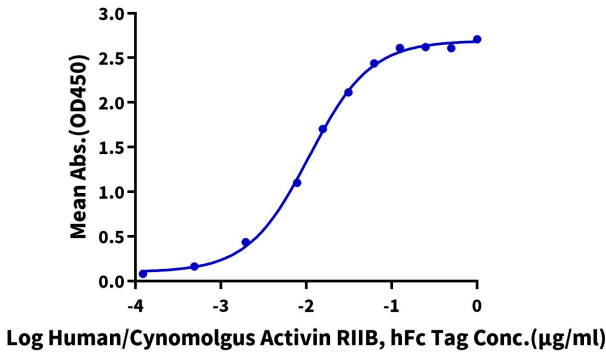
Cat. No. ACV-HM00B



Assay Data

ELISA Data

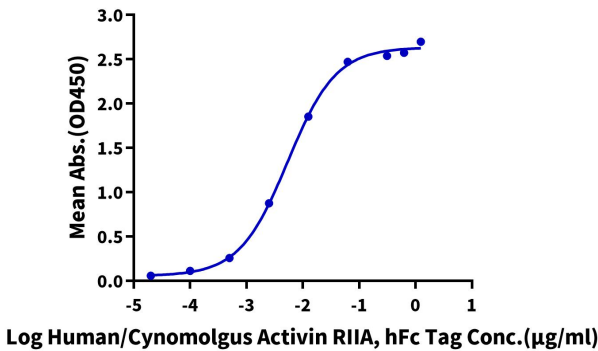
Human Activin B, No Tag ELISA
0.2µg Human Activin B, No Tag Per Well



Immobilized Human Activin B, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human/Cynomolgus Activin RIIB, hFc Tag (Cat. ARB-HM22B) with the EC50 of 10.8ng/ml determined by ELISA.

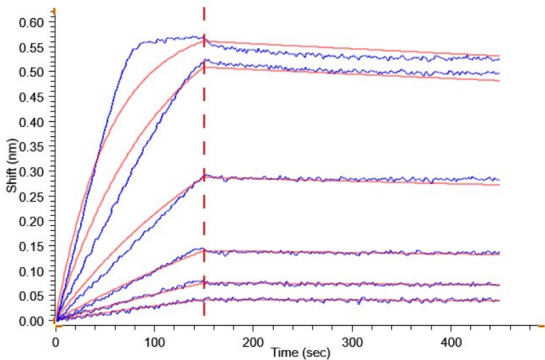
ELISA Data

Human Activin B, No Tag ELISA
0.2µg Human Activin B, No Tag Per Well



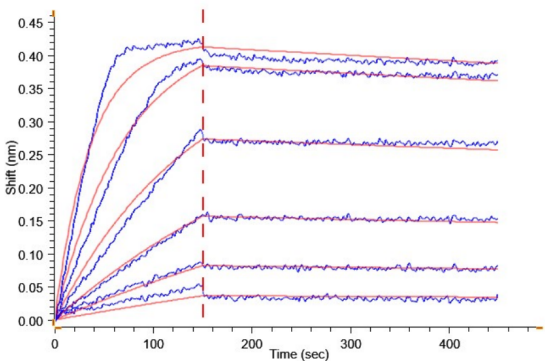
Immobilized Human Activin B, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human/Cynomolgus Activin RIIA, hFc Tag (Cat. ARA-HM22A) with the EC50 of 5.4ng/ml determined by ELISA.

BLI Data



Loaded Human/Cynomolgus Activin RIIA, hFc Tag (Cat. ARA-HM22A) on ProA-Biosensor can bind Human Activin B, No Tag with an affinity constant of 0.25 nM as determined in BLI assay.

BLI Data



Loaded Human/Cynomolgus Activin RIIB, hFc Tag (Cat. ARB-HM22B) on ProA-Biosensor can bind Human Activin B, No Tag with an affinity constant of 0.19 nM as determined in BLI assay.