Biotinylated Human/Cynomolgus Activin RIIA/ACVR2A Protein





| Description | |
|---------------------|--|
| Source | Recombinant Biotinylated Human/Cynomolgus Activin RIIA/ACVR2A Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. |
| | It contains Ala20-Pro135. |
| Accession | P27037-1 |
| Molecular Weight | The protein has a predicted MW of 16.31 kDa. Due to glycosylation, the protein migrates to 30-45 kDa 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 |
| | >95% as determined by HPLC |
| Formulation and | l Storage |
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before |

lyophilization.

Reconstitution

Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled water.

Storage

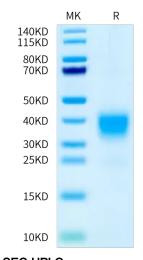
-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Activin A receptor type 2A (ACVR2A) is a membrane receptor in the transforming growth factor- beta (TGF- β signaling pathway, which is involved in the regulation of cell proliferation, migration, and apoptosis. Loss of ACVR2A has an important role in cancer progression and distant metastasis and may serve as a prognostic marker in patients with colon cancer.

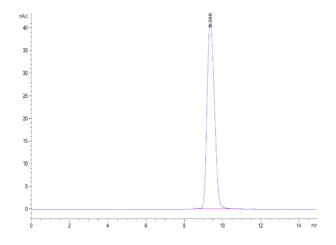
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Biotinylated Human/Cynomolgus Activin RIIA is greater than 95% as determined by SEC-HPLC.

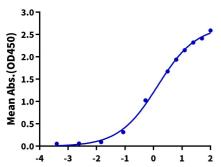


Assay Data

ELISA Data

Biotinylated Human Activin RIIA, His Tag ELISA

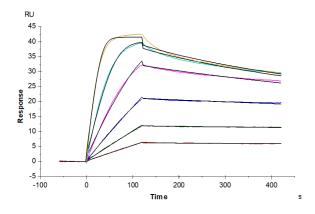
0.5μg Human Activin A, No Tag Per Well



Log Biotinylated Human Activin RIIA, His Tag Conc.(µg/ml)

Immobilized Human Activin A, No Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus Activin RIIA, His Tag with the EC50 of 0.48 μ g/ml determined by ELISA (QC Test).

SPR Data



Biotinylated Human/Cynomolgus Activin RIIA, His Tag immobilized on CM5 Chip can bind Human Activin A, No Tag with an affinity constant of 0.10 nM as determined in SPR assay (Biacore T200).