

# Human ACVR2A Protein; hFc Tag (Sotatercept)

# **Product Information**

Product Name	Human ACVR2A Protein; hFc Tag (Sotatercept)
Storage temp.	Store at $\leq$ -70°C, stable for 6 months after receipt.
	Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
	1 5 5
Catalog# / Size	GM-88034RP-100 / 100 µg
	GM-88034RP-1000 / 1 mg

## **Protein Information**

Alternative Names	Activin receptor type IIA, ACTRIIA, ACVR2A, ACVR2, ACTR-IIA
Source	Human ACVR2A Protein; hFc Tag (Sotatercept) (GM-88034RP) is expressed
	from Chinese hamster ovary cells (CHO). It contains AA Ala 20 - Pro 135
	(Accession # P27037-1).
	This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/µg, determined by LAL gel clotting assay
Predicted Mol Mass	39.9 KDa
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.2-7.4.
Description	The ACVR2A protein is a receptor-type serine/threonine kinase and belongs to
	the bone morphogenetic protein receptor family. The ACVR2A protein plays an
	important role in cell signaling and regulates biological processes such as cell
	proliferation, differentiation, and apoptosis.
	The ACVR2A protein is a transmembrane protein that contains an extracellular
	domain, a transmembrane domain, and an intracellular kinase domain. During
	signal transduction, the ACVR2A protein binds to its ligand, activates its kinase
	activity, phosphorylates downstream signaling molecules, and triggers a series of
	signaling pathways that affect cell function.
	The ACVR2A protein plays an important role in embryonic development, organ
	formation, bone growth and repair, immune regulation, and other physiological
	processes. It is also associated with the occurrence and development of various
	diseases such as cancer, inflammatory diseases, and autoimmune diseases.
	Therefore, the ACVR2A protein is considered an important therapeutic target and
	can be used to develop drugs for related diseases.



Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825 Toll-free: 400 627 9288 Email: service@genomeditech.com

#### **SDS-PAGE**



On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## **Bioactivity-ELISA**

**Bioactivity-ELISA** 0.5 μg Human ACVR2A Protein; hFc Tag (Sotatercept) of per well



Human ACVR2A Protein; hFc Tag (Sotatercept) (Catalog # GM-88034RP) was immobilized at 5 µg/ml (100 µL/well). Increasing concentrations of Anti-ACVR2B mIgG2a Antibody(Bimagrumab) (Catalog # GM-87700AB) were added.

Version:4.0



# **Bioactivity-CELL BASE**



The stimulatory effect of Human Activin A Protein, His Tag (Catalog # GM-87616RP), on the H\_ACVR2B Reporter Cell Line (Catalog # GM-C26076), was inhibited by increasing concentrations of Human ACVR2A Protein, hFc Tag (Sotatercept) (Catalog # GM-88034RP).

Version:4.0