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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Activin RIIB (ACVR2B), His-Avi-Tag, Biotin-Labeled Recombinant

Catalog: 102570
Lot: 250108-1

Product Information

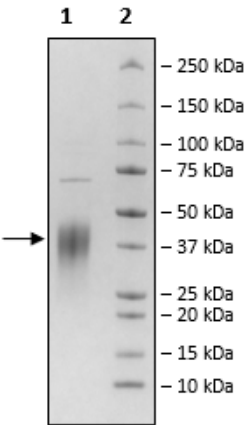
Description:	Recombinant human Activin RIIB (receptor IIB), also known as ACVR2B, encompassing amino acids 19-137. At the C-terminal this construct contains a His-tag (10xHis) followed by an Avi-tag™. The recombinant protein was enzymatically biotinylated using the Avi-Tag™ and affinity purified.
Background:	Activin A receptor type IIB, also known as ACVR2B, together as a complex with Activin A receptor type I (ACVRI), form a transmembrane receptor with serine/threonine kinase activity. Upon binding of activin, the kinase activity of the receptor is activated, SMAD2 (mothers against decapentaplegic homolog 2) and SMAD3 are phosphorylated, form a complex with SMAD4 and translocate to the nucleus, regulating gene expression. Activin A can be found in macrophages, dendritic cells, and neutrophils, playing a role in cell maturation and activation. It is involved in inflammation and autoimmune disorders, such as SLE (systemic lupus erythematosus), RA (rheumatoid arthritis), and atopic dermatitis. It is also involved in bone formation. The use of fusion protein blockers of the activin signaling pathways, that serve as sinks for activin A and other TGFβ (transforming growth factor beta) members, is being explored for the treatment of pulmonary hypertension, chemotherapy-induced anemia, and osteoporosis.
Species:	Human
Construct:	ACVR2B (19-137-His-Avi)-(Biotin)
Concentration:	1.52 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	17.4 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_00110634
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation confirmed to be ≥90%.
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Assay was done according to Activin A: Activin RIIB[Biotinylated] Inhibitor Screening Assay Kit (BPS Bioscience #82531) with various amounts of Activin RIIB.
Applications:	Useful for binding studies.

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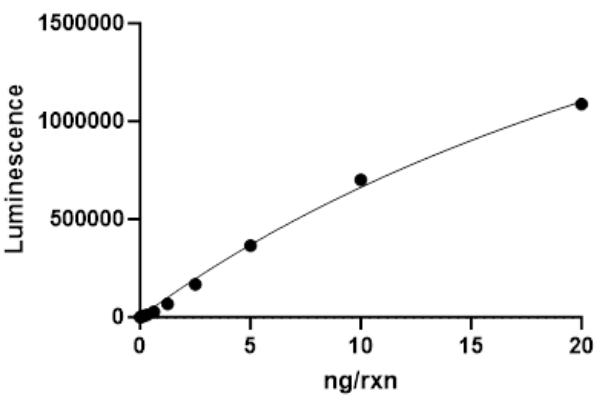
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Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Activin RIIB Activity



Quality Control Data

Biotin-Avidin Pulldown

