

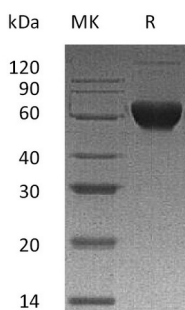
**Product Name: Recombinant Human ACVR2B (C-Fc-6His)**  
**Catalog #: PHH0014**



## Summary

<b>Name</b>	Activin RII B/ACVR2B/Activin receptor type IIB
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Activin Receptor Type 2B is produced by our Mammalian expression system and the target gene encoding Ser19-Thr134 is expressed with a human IgG1 Fc, 6His tag at the C-terminus.
<b>Accession #</b>	Q13705
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	41.3 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 10% Trehalose, 3% Mannitol, 0.05% Tween 80, 10 mM Methionine, pH8.5.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image



## Background

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**Alternative Names**

Activin Receptor Type-2B; Activin Receptor Type IIB; ACTR-IIB; ACVR2B

**Background**

Activin proteins that belong to the transforming growth factor-beta (TGF- $\beta$ ) superfamily, exert their biological actions by binding to heteromeric receptor complexes of type I and type II serine/threonine kinase receptors. On ligand binding, type I and II receptors form a stable complex, resulting in phosphorylation of type I receptors by type II receptors with constitutive kinase activity, and subsequently initiates the activation of downstream molecules including the endogenous Smads. ActRIIB, also known as ActRIIB, is a type II receptor containing an extracellular domain (ECD), a transmembrane segment, and a cytoplasmic region that includes the kinase domain. ActRIIB is a receptor for activin A, activin B and inhibin A. Multiple ActRIIB isoforms can also be generated, which bind activin isoforms with different affinities.

**Note**

For Research Use Only , Not for Diagnostic Use.