

## ACVR2B Protein, Human, Recombinant (hFc & His)

### General Information

Synonyms:	ACVR2B;Activin Receptor Type IIB;ACTR-IIB;Activin Receptor Type-2B
Protein Construction:	Ser19-Thr134
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13705
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Ser19-Thr134

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Activin proteins that belong to the transforming growth factor-beta (TGF-β) 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

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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.

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