



Recombinant Protein Technical Manual
Recombinant Human Activin Receptor 2B/ACVR2B
Protein (His Tag)
RPES1998

Product Data:

Product SKU: RPES1998

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q13705

Protein Information:

Molecular Mass: 14.4 kDa

AP Molecular Mass: 33 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Activin Receptor Type-2B; Activin Receptor Type IIB; ACTR-IIB; ACVR2B; Bone Morphogenetic Protein Receptor Type-2; BMP Type-2 Receptor; BMPR-2; Bone Morphogenetic Protein Receptor Type II; BMP Type II Receptor

Immunogen Information:

Sequence: Ser19-Thr134

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 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.