

## Product datasheet for **TP726993**

### Activin A Receptor Type IB (ACVR1B) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Activin Receptor 1B/Activin RIB/ALK-4/ACVR1B (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser24-Glu126
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	Recombinant Human Activin Receptor Type-1B is produced by our Mammalian expression system and the target gene encoding Ser24-Glu126 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	91
UniProt ID:	<a href="#">P36896</a>
Synonyms:	Activin Receptor Type-1B; Activin Receptor Type IB; ACTR-IB; Activin Receptor-Like Kinase 4; ALK-4; Serine/Threonine-Protein Kinase Receptor R2; SKR2; ACVR1B; ACVRLK4; ALK4
Summary:	Activin Receptor Type-1B (ACVR1B) is a single-pass type I membrane protein that belongs to the protein kinase superfamily. ACVR1B contains one GS domain and one protein kinase domain and is expressed in many tissues, most strongly in kidney, pancreas, brain, lung, and liver. ACVR1B acts as a transducer of activin or activin like ligands signals. Activin binds to either ACVR2A or ACVR2B and then forms a complex with ACVR1B, ACVR2A or ACVR2B activating ACVR1B through phosphorylation of its regulatory GS domain. They go on to recruit the R-SMADs, SMAD2 and SMAD3. ACVR1B also transducers signals of nodal, GDF-1, and Vg1. Mutations in ACVR1B are associated with pituitary tumors.
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane



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**Protein Pathways:** Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway