

Product datasheet for **TP312816M**

Activin Receptor Type IIB (ACVR2B) (NM_001106) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human activin A receptor, type IIB (ACVR2B), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212816 representing NM_001106 Red=Cloning site Green=Tags(s)

MTAPWVALALLWGSLCAGSGRGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHCYASWRNSSGTI
ELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFCNERFTHLPEAGGPEVTYEPPTAPTLTTLVLA
YSLLPIGGLSLIVLLAFWMYRHRKPPYGHVDIHEDPGPPPPSPLVGLKPLQLLEIKARGRFGCWKAQLM
NDFVAVKIFPLQDKQSWQSEREIFSTPGMKHENLLQFIAAEKRSNLEVELWLITAFHDKGSLTDYLKGN
IITWNELCHVAETMSRGLSYLHEDVPWCRGEGHKSIAHRDFKSKNVLLKSDLTAVLADFLAVRFEPGK
PPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELVSRCKAADGPVDEYMLPFEEEEIGQ
HPSLEELQEVVHKKMRPTIKDHWLKHPLAQLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS
DCLVSLVTSVTNVDLPPKESSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	57.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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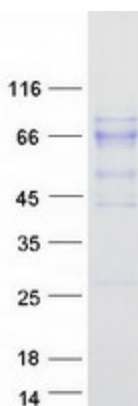
RefSeq:	NP_001097
Locus ID:	93
UniProt ID:	Q13705
RefSeq Size:	1584
Cytogenetics:	3p22.2
RefSeq ORF:	1536
Synonyms:	ActR-IIB; ACTRIIB; HTX4

Summary: Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified ACVR2B protein (Cat# [TP312816]). The protein was produced from HEK293T cells transfected with ACVR2B cDNA clone (Cat# [RC212816]) using MegaTran 2.0 (Cat# [TT210002]).