

Product datasheet for PH312816

Activin Receptor Type IIB (ACVR2B) (NM_001106) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACVR2B MS Standard C13 and N15-labeled recombinant protein (NP_001097)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212816
Predicted MW:	57.5 kDa
Protein Sequence:	>RC212816 representing NM_001106 Red=Cloning site Green=Tags(s)

MTAPWVALALLWGS LCAGSGRGEAETRECIYYNANWELERTNQSLERCEGEQDKRLHCYASWRNSSGTI
ELVKKGCWLDNFNCYDRQECVATEENPQVYFCCCEGNFCNERFTHLPEAGGPEVTYEPPPTAPTLTLVLA
YSLLP IGGLSLIVLLAFWYRHRKPPYGHVDIHEDPGPPPSPLVGLKPLQLLEIKARGRF GCVWKAQLM
NDFVAVKIFPLQDKQSWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTDYLGKN
IITWNELCHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSKNVLLKSDLTAVLADFLAVRFEPGK
PPGDTHGQVGTTRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELVSRCKAADGPVDEYMLPFEEEEIGQ
HPSLEELQEVVHKKMRPTIKDHWLKHPGLAQLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS
DCLVSLVTSVTNVDLPPKESSI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001097</u>
RefSeq Size:	1584
RefSeq ORF:	1536



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Synonyms: ActR-IIB; ACTRIIB; HTX4

Locus ID: 93

UniProt ID: [Q13705](#)

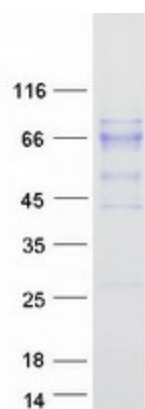
Cytogenetics: 3p22.2

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]).