

Product datasheet for PH325877

Activin Receptor Type IA (ACVR1) (NM_001111067) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACVR1 MS Standard C13 and N15-labeled recombinant protein (NP_001104537)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225877
Predicted MW:	57.15 kDa
Protein Sequence:	>RC225877 representing NM_001111067 Red=Cloning site Green=Tags(s)

MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGC
FQVYEQGMKCTKTPSPGQAVECCQGDWCNRNITAQLPTKGSFPGTQNFHLEVGLIILSVFVAVCLLAC
LLGVALRKFRRNQERLNPRDVEYGTIEGLITTNVGDSTLADLLDHSCTSGSGSGLPFLVQRTVARQITL
LECVGKGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETLYNTVMLRHENILGFIASDMTSRHSSTQLW
LITHYHEMGSLYDYQLTTLDTVSLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNILVKKNGQC
CIADLGLAVMHSQSTNQLDVGNPNRVGTRKRYMAPEVLDETIQVDCFDSYKRVDIWAFLVLEWVARRMVS
NGIVEDYKPPFYDVVNDPSPFEDMRKVVCDQQRPNIPNRWFSPTLTLAKLMKECWYQNP SARLTALR
IKKTLTKIDNSLDKDKTDC

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_001104537
RefSeq ORF:	1527
Synonyms:	ACTRI; ACVR1A; ACVRLK2; ALK2; FOP; SKR1; TSRI



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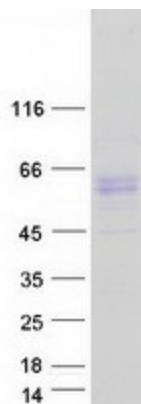
Locus ID: 90
UniProt ID: [Q04771](#), [D3DPA4](#)
Cytogenetics: 2q24.1

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. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

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

Product images:



Coomassie blue staining of purified ACVR1 protein (Cat# [TP325877]). The protein was produced from HEK293T cells transfected with ACVR1 cDNA clone (Cat# [RC225877]) using MegaTran 2.0 (Cat# [TT210002]).