

Product datasheet for PH325494

Activin A Receptor Type 1C (ACVR1C) (NM_001111033) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACVR1C MS Standard C13 and N15-labeled recombinant protein (NP_001104503)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225494
Predicted MW:	37.3 kDa
Protein Sequence:	>RC225494 representing NM_001111033 Red=Cloning site Green=Tags(s) MTRALCSALRQALLLLAAAELSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELN AQVFCHSSNVTKTECCFTDFCENNITLHLPDNGTWTQLWLVSEYHEQGSLYDYLNRNIVTVAGMIKLAL SIASGLAHLHMEIVGTQGKPAIAHRDIKSKNILVKKCETCAIADLGLAVKHDSILNTIDIPQNPVKVGTKR YMAPEMLDDTMNVNIFESFKRADIYSVGLVYWEIARRCSVGGIVEEYQLPYDMVPSDPSIEEMRKVVCD QKFRPSIPNQWQSCEALRVMGRIMRECWYANGAARLTALRIKKTISQLCVKEDCKA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_001104503
RefSeq ORF:	1008
Synonyms:	ACVRLK7; ALK7
Locus ID:	130399
UniProt ID:	Q8NER5



[View online »](#)

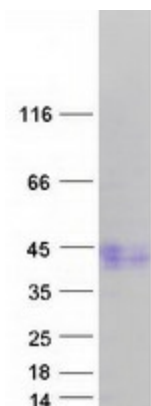
Cytogenetics: 2q24.1

Summary: ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008]

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

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

Product images:



Coomassie blue staining of purified ACVR1C protein (Cat# [TP325494]). The protein was produced from HEK293T cells transfected with ACVR1C cDNA clone (Cat# [RC225494]) using MegaTran 2.0 (Cat# [TT210002]).