Activin Receptor Type-2a (ACVR2A) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Activin receptor type-2A (ACVR2A), Recombinant Protein
Full Product Name	Recombinant Chicken Activin receptor type-2A (ACVR2A), partial
Product Gene Name	ACVR2A recombinant protein
Product Synonym Gene Name	ACVR2A
Sequence	A ILGRSETQEC IYYNANWEKD KTNRSGIEPC YGDKDKRRHC FATWKNISGS IEIVKQGCWL DDINCYDRND CIEKKDSPEV FFCCCEGNMC NERFFYFPEM EVTQPTSNPV TPKPPLFNT
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	58,092 Da
Sequence Positions	20-139
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q90669
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACVR2A recombinant protein	This gene encodes activin A type II receptor. 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.
Other Notes	Small volumes of ACVR2A recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACVR2A purchase	MBS1342792 is a recombinant protein targeting ACVR2A. Also known as Recombinant Chicken Activin receptor type-2A (ACVR2A), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACVR2A. It may not necessarily be applicable to this product.

NCBI GI #	45382471
NCBI GeneID	396324
NCBI Accession #	NP_990698.1
UniProt Primary Accession #	Q90669
UniProt Secondary Accession #	Q90745
UniProt Related Accession #	Q90669
GenBank Nucleotide #	NM_205367.1
NCBI Official Full Name	activin receptor type-2A
NCBI Official Synonym Full Names	activin A receptor type 2A
NCBI Official Symbol	ACVR2A
UniProt Protein Name	Activin receptor type-2A
UniProt Synonym Protein Names	Activin receptor type IIA; ACTR-IIA; ACTRIIA
Protein Family	Activin receptor
UniProt Gene Name	ACVR2A
UniProt Synonym Gene Names	ACTR-IIA; ACTRIIA
NCBI Protein Information	activin receptor type-2A
UniProt Comments for ACVR2A	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin A, activin B and inhibin A. May modulate neuropeptide expression in dorsal root ganglia (DRG) neurons and ovarian follicle development.
Research Articles on ACVR2A	**1.** Between broiler and layer lines, there were no significant changes in expression of the ACVR2A gene during embryonic stages but it varied significantly during the post-hatch period. The shRNA showed silencing of the ACVR2A gene under an in vitro cell culture system.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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