

ACVR2A recombinant protein

Recombinant Mouse ACVR2A Protein (mFc Tag), HPLC-verified

CATALOG # AAA259313	HOST HEK293 Cells	REACTIVITY Mouse
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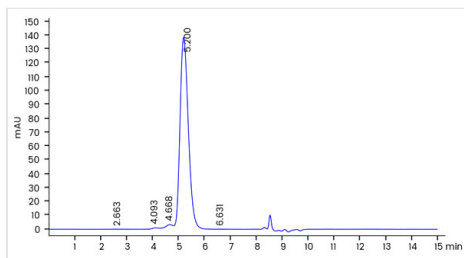
PRODUCT SYNONYMS

ACVR2A; Recombinant Mouse ACVR2A Protein (mFc Tag); HPLC-verified; Mouse ACVR2A Protein (mFc Tag); activin A receptor; type IIA; ActrIIa Protein; Mouse; Acvr2 Protein; Acvr2a Protein; TactrII Protein; ACVR2A recombinant protein

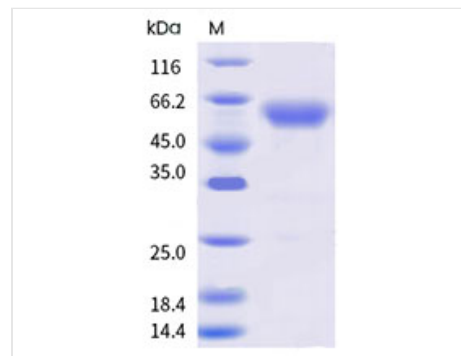
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Mouse
Purity/Purification	>= 90% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Pro13 4
Tag	C-mouse IgG2a-Fc
Predicted N Terminal	Ala 20
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Mouse ACVR2A (P27038)(Met1-Pro134) was expressed with the Fc region of mouse IgG2a at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for ACVR2A recombinant protein	ACVR2A and ACVR2B are two activin type II receptors. ACVR2A has been shown to interact with INHBA, SYNJ2BP and ACVR1B. The bovine ACVR2A gene encodes a protein of 513 amino acids which is highly homologous (approximately 98% identity) to the rat, mouse, and human ACVR2A proteins. Inactivation of ACVR2A is a common event in prostate cancer cells suggesting it may play an important role in the development of prostate cancer. The ACVR2A gene is a putative tumor suppressor gene that is frequently mutated in microsatellite-unstable colon cancers (MSI-H colon cancers). Frameshift mutation of ACVR2A may contribute to MSI-H colon tumorigenesis via disruption of alternate TGF-beta effector pathways.
References	Albertso. RC. e. al. (2005. Zebrafis. acvr2. an. acvr2. exhibi. distinc. role. i. craniofacia. development. Developmenta. dynamic. 233(4). 1405-18.Chun. H. e. al. (2008. Mutatio. rate. o. TGFB. an. ACVR. codin. microsatellite. i. huma. cell. wit. defectiv. DN. mismatc. repair. Plo. on. 3(10). e3463.Fitzpatric. E. e. al. (2009. Geneti. associatio. o. th. activi. . recepto. gen. (ACVR2A. an. pre-eclampsia. Molecula. huma. reproductio. 15(3):195-204.Rote. LT. e. al. (2009. Associatio. betwee. th. candidat. susceptibilit. gen. ACVR2. o. chromosom. 2q2. an. pre-eclamps. i. . larg. Norwegia. population-base. stud. (th. HUN. study). EJHG. 17(2). 250-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	160358785
NCBI GeneID	11480
NCBI Accession #	NP_031422.3
NCBI GenBank Nucleotide #	NM_007396.4
UniProt Accession #	P27038
Molecular Weight	57,890 Da
NCBI Official Full Name	activin receptor type-2A
NCBI Official Synonym Full Names	activin receptor IIA
NCBI Official Symbol	Acvr2a
NCBI Official Synonym Symbols	Acvr2; ActrIIa; TactrII
NCBI Protein Information	activin receptor type-2A
UniProt Protein Name	Activin receptor type-2A
UniProt Gene Name	Acvr2a
UniProt Synonym Gene Names	Acvr2; ACTR-IIA
UniProt Entry Name	AVR2A_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.