

ARID5A Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Arid5a;ARID domain-containing protein 5A;AT-rich interactive domain-containing protein 5A
Protein Construction:	1-590 aa
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	Q3U108
Molecular Weight:	65.9 kDa (predicted)
AA Sequence:	MAAPPAKGNTEQSEEGDLPQLPVSPKPDDEQSRQSPTQLQDSPEAGGEQEEQAFVLVSLYKFMKERHTPIE RVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLLWKNVYDELGGSPGSTSAATCTRRHYERLVLPYVRHLKGED DKPLPPTKPRKQYKMAKELRGDDGTTEKLLKAKDSEERRVEQTTPGKTKSDATGQTQLPCQGSRRDSTEQLG PVGSPSPPLTGASSCPEAYKRLSSFYCKGAHGIMSPLAKKKLLAQVSKAEALQCQEEGCRHGARSPNKDIQD SPQNLRGPAENSEHQLTPREGLQAPGGSTRMEAQVGPCPTAPMFSGCFHAYPTEVLKPVSQHPRDFFSGLK DRVLLGPPGKEEGPTTKESHVWGGDANHPSAFHKGSTRKRSFYKPKACWVSPMAKVPTERPGAPSPHPS SPGLGSKRGLSEEGFAHGKLLRAVSPFLKEVDSKETGGKPAAPGLAVSCLLGPTPGPTPPEAYRGTMLRCPL NFTGSADPLKGQASLPFSPVIPAFPAHLLATTGSSPMAASLMHFPTPYDAVLRNRLGPASSAWHMPPVTT YAAPHFFHLNTKL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

DNA-binding protein that may regulate transcription and act as a repressor by binding to AT-rich stretches in the promoter region of target genes. May positively regulate chondrocyte-specific transcription such as of COL2A1 in collaboration with SOX9 and positively regulate histone H3 acetylation at chondrocyte-specific genes. May stimulate early-stage chondrocyte differentiation and inhibit later stage differentiation. Can repress ESR1-mediated transcriptional activation; proposed to act as corepressor for selective nuclear hormone receptors. As RNA-binding protein involved in the regulation of inflammatory response by stabilizing selective inflammation-related mRNAs, such as IL6, STAT3 and TBX21. Binds to stem loop structures located in the 3'UTRs of IL6, STAT3 and TBX21 mRNAs; at least for STAT3 prevents binding of ZC3H12A to the mRNA stem loop structure thus inhibiting its degradation activity. Contributes to elevated IL6 levels possibly implicated in autoimmunity processes. IL6-dependent stabilization of STAT3 mRNA may promote differentiation of naive CD4+ T-cells into T-helper Th17 cells. In CD4+ T-cells may also inhibit RORC-induced Th17 cell differentiation independently of IL6 signaling. Stabilization of TBX21 mRNA contributes to elevated interferon-gamma secretion in Th1 cells possibly implicated in the establishment of septic shock. Stabilizes TNFRSF4/OX40 mRNA by binding to the conserved stem loop structure in its 3'UTR; thereby competing with the mRNA-destabilizing functions of RC3H1 and endoribonuclease ZC3H12A.

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