

## ARID1A Protein, Human, Recombinant (E. coli, His &amp; Myc)

## General Information

Synonyms:	ARID domain-containing protein 1A;BRG1-associated factor 250a (BAF250A);ARID1A;SWI-like protein;hELD;OSA1;B120;AT-rich interactive domain-containing protein 1A;C1orf4;SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin subfamily F member 1; SMARCF1;BAF250A;Osa homolog 1 (hOSA1);BAF250;SWI/SNF complex protein p270;BRG1-associated factor 250 (BAF250)
Protein Construction:	1976-2231 aa
Species:	Human
Expression Host:	E. coli
Accession:	O14497
Molecular Weight:	33.4 kDa (predicted)
AA Sequence:	SLAKRCVCSNTIRSLSFVPGNDFEMSKHPGLLLLILGKLILLHKKHPERKQAPLTYEKEEQDQGVSCNKVEW WWDCLEMLRENTLVTLANISGQLDSPYPESICLPVLDGLLHWAVCPSEAEQDPFSTLGPNAVLSPQRLVLET LSKLSIQDNNVDLILATPPFSRLEKLYSTMVRFSLDRKNPVCREMAVLLANLAQGDSLAAARAIQKGSIGNL LGFLEDSLAAATQFQQSQASLLHMQNPPFEPTSVDMM

## 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:	> 85% 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 &amp; 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

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. Binds DNA non-specifically. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth.

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