

SMARCA2 Protein, Human, Recombinant (His)

General Information

Synonyms:	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 2; Probable global transcription activator SNF2L2; SNF2-alpha; Protein brahma homolog (hBRM); SNF2L2; SNF2A; SMARCA2; BAF190B; BRM; ATP-dependent helicase SMARCA2; BRG1-associated factor 190B (BAF190B)
Protein Construction:	700-1216 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P51531
Molecular Weight:	61.7 kDa (predicted)
AA Sequence:	SYITVAHAISERVEKQSALLINGTLKHYQLQGLEWMVSLYNNNLNGILADEMGLGKTIQTIALITYLMEHKRLN GPYLIIVPLSTLSNWTYEFDKWAPSVVKISYKGPAMRRSLVPQLRSGKFNVLTTTYEYIHKDKHILAKIRWKYMI VDEGHRMKNHHCKLTQVLNTHYVAPRRILLTGTPLNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMTGE RVDLNEEETILIIRRLHKVLRPFLRLKKEVESQLPEKVEYVIKCDMSALQKILYRHMQAAGILLTDGSEKDKKG KGGAKTLMNTIMQLRKICNHPYMFQHIEESFAEHLGYSNGVINGAELYRASGKFELDRILPKLRATNHRVLLF CQMTSLMTIMEDYFAFRNFLYLRLDGTTKSEDRAALLKKFNPEGSQYFIFLLSTRAGGLGLNLQAADTVVIFDS DWNPHQDLQAQDRAHRIGQQNEVRVRLRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAF

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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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