

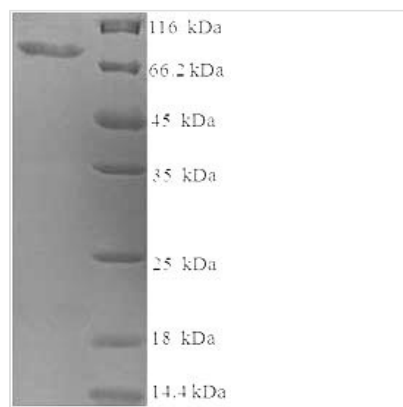


Recombinant Human Probable global transcription activator SNF2L2 (SMARCA2), partial

Product Code	CSB-EP021799HU
Relevance	Transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. 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 st/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 st/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 st cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth .
Abbreviation	Recombinant Human SMARCA2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P51531
Alias	ATP-dependent helicase SMAR;CA2BRG1-associated factor 190B
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SYYTVAHAISERVEKQSALLINGTLKHYQLQGLEWMVSLYNNNLNGILADEMG LGKTIQTIALITYLMEHKRLNGPYLIIVPLSTLSNWTYEFDKWAPSVVKISYKGTP AMRRSLVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCK LTQVLNTHYVAPRRILLTGTP LQNKLPELWALLNFFLLPTIFKSCSTFEQWFNAPF AMTGERVDLNEEETILIIRRLHKVLRPFLLRRLKKEVESQLPEKVEYVIKCDMSA LQKILYRHMQAAGILLTDGSEKDKKGKGGAKTLMNTIMQLRKICNHPYMFQHIE ESFAEHLGY SNGVINGAELYRASGKFELLDRLPKLRATNHRVLLFCQMTSLMT IMEDYFAFRNFLYLRLDGTTKSEDRAALLKKFNEPGSQYFIFLLSTRAGGLGLN LQAADTVVIFDSDWNPHQDLQAQDRAHRIGQQNEVRVRLRLCTVNSVEEKILAA AKYKLNVDQKVIQAGMFDQKSSSHERRAF
Research Area	Neuroscience
Source	E.coli



Target Names	SMARCA2
Expression Region	700-1216aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	75.7kDa
Protein Length	Partial

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

A target DNA sequence encoding to the 700-1216aa of human probable global transcription activator SNF2L2 (SMARCA2) was fused with an N-terminal 6xHis-SUMO-tag and then expressed in E.coli. The resulting protein is the partial-length recombinant SMARCA2 protein. Its purity is over 90% measured by SDS-PAGE. This SMARCA2 protein migrated to a 90 kDa molecular mass band on the gel. The in-stock protein allows it to reach your lab bench faster. This recombinant SMARCA2 protein may be applied to generate specific antibodies and in the studies of neuroscience.

SMARCA2 is frequently downregulated in tumors. Tumors with high SMARCA2 levels are mostly associated with a good prognosis. The expression of SMARCA2 is negatively regulated by mitogenic stimulation and Ras and ERK signaling, and restoration of SMARCA2 concentration results in reversion of the transformed phenotype. Studies show that SMARCA2 is required for cell cycle arrest during myoblast differentiation.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.