

# Recombinant Full Length Human SMARCA4 Protein, C-His,C-Flag-tagged

**Cat. No.** SMARCA4-01HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human SMARCA4 Protein, fused to His and Flag-tag at C-terminus, was expressed in Baculovirus.
<b>Species</b>	Human
<b>Source</b>	Insect cells
<b>Description</b>	The protein encoded by this gene is a member of the SWI/SNF family of proteins and is similar to the brahma protein of Drosophila. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Form</b>	Sterile 25mM Hepes, 0.1mM EDTA, 10% Glycerol, 350mM NaCl, pH7.6.
<b>Molecular Mass</b>	186 kDa
<b>AA Sequence</b>	MSTDPPLGGTPRPGSPGPGSPGAMLGSPGSPGSAHSMMGSPGPPSAGH PIPTQGGYPQDNMHQMHKPMESMHEKGMSSDDPRYNQMKGMGMRSGGHAGM

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GPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSGPGGAPLDGADPQ  
ALGQQNRGPTPFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMGPMQ  
QQMPTLPPPSVSATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSG  
VPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQKLIPPQPTGRPSPAPPVPPAA  
SPVMPPQTQSPGQPAQPAPMVPLHQKSRITPIQKPRGLDPVEILQEREYRLQARIA  
HRIQELENLPGSLAGDLRTKATIELKALRLLNFQRQLRQEVVCMRRDTALETALNAK  
AYKRSKRQSLREARITEKLEKQQKIEQERKRRQKHQEYLNLSILQHAKDFKEYHRSVT  
GKIQKLTAVATYHANTEREQKKENERIEKERMRRLMAEDEEGYRKLIDQKKDKRLA  
YLLQQTDEYVANLTELVRQHAAQVAKEKKKKKKKKKAENAEGQTPAIGPDGEPLD  
ETSQMSDLPVKVIHVESGKILTGTDPKAGQLEAWLEMNPGYEVAPRSDSEESGSE  
EEEEEEEEEQPQAAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDEYGV  
SQALARGLQSYVAHAVTERVVKQKQALMVNGVVKQYQIKGLEWLVSLYNNNLNGI  
LADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKWAPSVVKVSYK  
GSPAARRAFVPLRSGKFNVLTTTYEYIIKDKHILAKIRWKYIMIVDEGHRMKNHHCKL  
TQVLNTHYVAPRLLLLTGTPLNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMT  
GEKVDLNEEETILIRRLHKVLRPFLRLRLLKKEVEAQLPEKVEYVIKCDMSALQRVLYR  
HMQAKGVLLTDGSEKDKKGGGKTKLMTIMQLRKICNHPYMFQHIEESFSEHLGF  
TGGIVQGLDLYRASGKFELDRILPKLRATNHKVLLFCQMTSLMTIMEDYFAYRQFKY  
LRLDGTTKAEDRGMLLKTFFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPH  
QDLQAQDRAHRIGQQNEVRVLRRLCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQK  
SSSHERRAFLQAILEHEEQDES RHCSTGSGSASFAHTAPPPAGVNPDLPEEPLKEE  
DEVPPDET VNQMIA RHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIK  
DDAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVR  
QKKSSRKRKRDS DAGSSTPTTSTRSRDKDES KKKRGRPPAEKLSNPPNLT  
KMKKIVDAVIKYK DSSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKY  
RSLNDLEKDVMLLCQNAQTFNLEGLSIYEDSIVLQSVFTSVRQKIEKEDDSEGEESSE  
EEEEEGSESESRSVKVKIKLGRKEKAQDRLKGGRRRPSRGRSRAKPVVSDDDSE  
EEQEEDRSGSGSEEDHHHHHHHDYKDDDDK

**Storage**

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the

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protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 0.46 mg/ml

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** SMARCA4 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 [ Homo sapiens (human) ]

**Official Symbol** [SMARCA4](#)

**Synonyms** SMARCA4; BRG1; CSS4; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A; SNF2-beta; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4

**Gene ID** [6597](#)

**mRNA Refseq** [NM\\_003072.5](#)

**Protein Refseq** [NP\\_003063.2](#)

**MIM** [603254](#)

**UniProt ID** [P51532](#)

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