

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human SMARCA4 Protein, fused to His and Flag-tag at C-terminus, was expressed in Baculovirus.
Species	Human
Source	Insect cells
Description	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.
Form	Sterile 25mM Hepes, 0.1mM EDTA, 10% Glycerol, 350mM NaCl, pH7.6.
Molecular Mass	186 kDa
AA Sequence	MSTDPPLGGTPRPGSPGPGSPGAMLGSPGPGSPGSAHSMMGSPGPPSAGH PIPTQGGYPQDNMHQMHKPMESMHEKGMSDDPRYNQMKGMGMRSGGHAGM

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GPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSGPGGAPLDGADPQ
 ALGQQNRGPTPFNLQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPGMQ
 QQMPTLPPPSVSATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSG
 VPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQKLIPPQPTGRPSAPPVPPAA
 SPVMPPQTQSPGQPAQPAPMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQARIA
 HRIQELENLPGLAGDLRTKATIELKALRLLNFQRQLRQEVVCMRRDTALETALNAK
 AYKRSKRQSLREARITEKLEKQQKIEQERKRRQKHQEYLSILQHAKEFKEYHRSVT
 GKIQKLTAVATYHANTEREQKKENERIEKERMRRMAEDEEGYRKLIDQKKDKRLA
 YLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIGPDGEPLD
 ETSQMSDLPVKVIHVESGKILTGTDAKAGQLEAWLEMNPGYEVAPRSDSEESGSE
 EEEEEEEEQPQAAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDEYGV
 SQALARGLQSYAVAHAVTERVDKQSALMVNGVLKQYQIKGLEWLVSLYNNNLNGI
 LADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKWAPSVVKVSYK
 GSPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKL
 TQVLNTHYVAPRRLLLTGTPQLQNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMT
 GEKVDLNEEETILIIRRLHKVLRPFLRLRLLKKEVEAQLPEKVEYVIKCDMSALQRVLYR
 HMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPYMFQHIEESFSEHLGF
 TGGIVQGLDLYRASGKFELLDRLPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKY
 LRLDGTTKAEDRGMLLKTFFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPH
 QDLQAQDRAHRIGQQNEVRVRLCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQK
 SSSHERRAFLQAILEHEEQDESRHCSTGSGSASFHTAPPPAGVNPDLPEPLKEE
 DEVPDDETQMIARHEEEFDLFRMDLDRRREEARNPKRKPRLMEEDELPSWIK
 DDAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVR
 QKKSSRKRKRDSAGSSTPTTSTRSRDKDESCKQKKRGRPPAEKLSNPPNLT
 KMKKIVDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKY
 RSLNDLEKDVMLLCQNAQTFNLEGLSIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
 EEEGEEGSESESRSVKVKKIKLGRKEKAQDRLKGGRRRPSRGSRAKPVVSDDDSE
 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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