

Recombinant Full Length Human SMARCA4 protein, His&FLAG-tagged

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

SPECIFICATION

Product Overview	Recombinant Full Length Human SMARCA4 protein with C-His&FLAG-tag was expressed in Baculovirus-Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	1-1647 aa
Description	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.
Molecular Mass	186 kDa
AA Sequence	MSTDPPLGGTPRPGSPGPGSPGAMLGSPGSPGSAHSMMGSPSGPPSAGH PIPTQGPGGGYPQDNMHQMHKPMESMHEKGMSDDPRYNQMKGMGMRSGGHAGM GPPPSPMDQHSQGYPSPLGGSEHASSVPVSPSGPSSGPQMSSGPGGAPLDGADPQ ALGQQNRGPTPFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPGMQ QQMPTLPPPSVSATGPGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSG VPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQKLIPPQPTGRPSPAPPAVPPAA SPVMPPQTQSPGQPAQAPAMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQARIA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



HRIQELENLPGSLAGDLRTKATIELKALRLLNFQRQRLRQEVVVCMRRTALETALNAK
AYKRSKRQSLREARITEKLEKQKQKIEQERKRRQKHQEYLNILQHAKDFKEYHRSVT
GKIQKLTKAVATYHANTEREQKKENERIEKERMRRLLMAEDEEGYRKIDQKKDKRLA
YLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIGPDGEPLD
ETSQMSDLPVKVIHVESGKILTGTDAKAGQLEAWLEMNPGYEVAPRSDSEESGSE
EEEEEEEEEQPQAAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDEYGV
SQALARGLQSYAVAHAVTERVVKQSALMVNGVLKQYQIKGLEWLVSLYNNNLNGI
LADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKWAPSVVKVSYK
GSPAARRAFVPQLRSGKFNVLLTTYEYIHKDKHILAKIRWKYMIVDEGHRMKNHHCKL
TQVLNTHYVAPRRLTLGTPLQNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMT
GEKVDLNEEETILIIRRLHKVLRPFLRLKKEVEAQLPEKVEYVIKCDMSALQRVLYR
HMQAKGVLLTDGSEKDKKGGGTCTLMNTIMQLRKICNHPYMFQHIEESFSEHLGF
TGGIVQGLDLYRASGKFELLDRLPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKY
LRLDGTTKAEDRGMLLKTFFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPH
QDLQAQDRAHRIGQQNEVRVLRRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQK
SSSHERRAFLQAILEHEEQDES RH CSTGSGSASFHTAPPPAGVNPDL EEPPLKEE
DEVPDDET VNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIK
DDAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVR
QKKSSRKRKRDS DAGSSTPTTSTRSRDKDESKKQKKRGRPPAEKLSNPPNLT
KMKKIVDAVIKYKDS SSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKY
RSLNDLEKDVMLLCQNAQTFNLEGLSIYEDSIVLQSVFTSVRQKIEKEDDSEGESE
EEEEEEEGSESESRSVKVIKILGRKEKAQDRLKGRRRPSRGSRAKPVVSDDDSE
EEOEEDRSGSGSEEDHHHHHHHDYKDDDDK

Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile 25mM Hepes, 0.1mM EDTA, 10% Glycerol, 350mM NaCl, pH7.6
Concentration	0.46 mg/mL by BCA

GENE INFORMATION

Gene Name	SMARCA4 SWI/SNF related BAF chromatin remodeling complex subunit ATPase 4 [Homo sapiens (human)]
Official Symbol	SMARCA4
Synonyms	SMARCA4; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4; SNF2L4; transcription activator BRG1; ATP dependent helicase SMARCA4; BAF190; brahma protein like 1; BRG1; BRM/SWI2 related gene 1; FLJ39786; global transcription activator homologous sequence; homeotic gene regulator; hSNF2b; mitotic growth and transcription activator; nuclear protein GRB1; SNF2; SNF2 BETA; SNF2 like 4; SNF2LB; sucrose nonfermenting like 4; SWI2; BAF190A; SNF2-like 4; protein BRG-1; brahma protein-like 1; BRM/SWI2-related gene 1; protein brahma homolog 1; BRG1-associated factor 190A; sucrose nonfermenting-like 4; ATP-dependent helicase SMARCA4; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 4; RTPS2; SNF2-BETA;
Gene ID	6597
mRNA Refseq	NM_001128844
Protein Refseq	NP_001122316
MIM	603254
UniProt ID	P51532

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