

Recombinant Human SMARCA4, GST-tagged

Cat. No. SMARCA4-1916H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMARCA4(a.a. 1480-1603), fused with N-terminal GST-tag, was expressed in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	1480-1603
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	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
Molecular Mass	41.3 kDa
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY

 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

YIDGDVKLTQSMAIIRY IADKHNMLGGCPKERAIEISMLEGAVLDIRYGVSR IAYS KDF
 ETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHV THPDFMLYDALDVVLYMDPMCLD
 AFPKLVCFKKR IEAIPQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDLE VLFQGP
 LGSAEKLSPNPPNLTKMKKIVDAVIKYK DSSSGRQLSEVFIQLPSRKELPEYYELIRK
 PVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQTFNLEGLIYEDSIVLQSVFTSVR
 QKIEKEDDSE

Purity ≥96%

Applications Useful for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.

Storage >6 months at –80°C. Avoid freeze/thaw cycles.

Concentration 2.88 mg/ml

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; 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

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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_001128849](#)

Protein Refseq [NP_001122321](#)

MIM [603254](#)

UniProt ID [P51532](#)

Chromosome Location 19p13.2

Pathway Chromatin modifying enzymes; Chromatin organization; Integrated Breast Cancer Pathway; RMTs methylate histone arginines

Function ATP binding; DNA-dependent ATPase activity; contributes_to RNA polymerase II core promoter proximal region sequence-specific DNA binding

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