

Active Recombinant Human SMARCA4, His&FLAG-tagged

Cat. No. SMARCA4-72H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human SMARCA4 corresponding to amino acids 1448-1569 that contains the bromodomain sequences of SMARCA4 (accession number NP_003063.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 20.4 kDa. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 1448-1569 a.a. |
| Description | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 (SMARCA4), also known as BRG1, 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. SMARCA4 contains bromodomains for interaction with other proteins. The bromodomain functions as a "reader" of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. |
| Form | 25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol. |
| Bio-activity | It shows binding specificity for acetylated H2BK5, H3K14 and H3K9/14. |

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| Applications | Binding assays, inhibitor screening, and selectivity profiling. |
| Storage | Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. |
| Concentration | 8.1 mg/ml |
| GENE INFORMATION | |
| Gene Name | SMARCA4 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 [Homo sapiens] |
| 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 |

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| Protein Refseq | NP_001122316 |
| MIM | 603254 |
| UniProt ID | P51532 |
| Chromosome Location | 19p13.3 |
| Pathway | Direct p53 effectors, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Regulation of retinoblastoma protein, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem; |
| Function | ATP binding; DNA binding; DNA-dependent ATPase activity; Tat protein binding; androgen receptor binding; helicase activity; histone acetyl-lysine binding; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; nucleotide binding; p53 binding; protein N-terminus binding; protein binding; transcription coactivator activity; transcription coactivator activity; transcription corepressor activity; |

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