

Recombinant Human SMARCA4, GST-tagged

Cat. No. SMARCA4-1910H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMARCA4 (1448-1575 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1448-1575 aa
Description	The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as "readers" of histone acetylation marks regulating the transcription of target promoters. BRG1 is a member of the SWI/SNF protein family, which forms part of a large ATP-dependent chromatin remodeling complex. This complex is required for transcriptional activation of genes normally repressed by chromatin. BRG1 is mutated in many cancer cell lines, such as breast, prostate, lung, pancreas and colon. Further, BRG1 has an important role as a tumor suppressor. This protein can be used for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.
Appearance	Liquid

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Form	50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β -mercaptoethanol.
Molecular Mass	41.8 kDa (1448-1575 aa + GST Tag)
Purity	$\geq 95\%$ by SDS-PAGE
Usage	For Research Use Only! Not For Use in Humans.
Storage	Store at -80°C . Avoid repeated freeze and thaw cycles. Stable for 1 year.

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; BRG1; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A; transcription activator BRG1; SNF2-beta; SNF2-like 4; protein BRG-1; nuclear protein GRB1; brahma protein-like 1; BRM/SWI2-related gene 1; homeotic gene regulator; protein brahma homolog 1; BRG1-associated factor 190A; sucrose nonfermenting-like 4; ATP-dependent helicase SMARCA4; mitotic growth and transcription activator; global transcription activator homologous sequence
Gene ID	6597
mRNA Refseq	NM_003072

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Protein Refseq	NP_003063
MIM	603254
UniProt ID	P51532
Chromosome Location	19p13.2
Pathway	Direct p53 effectors; Glucocorticoid receptor regulatory network; Integrated Breast Cancer Pathway
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; RNA polymerase II transcription coactivator activity

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