

Recombinant Human SMARCA2, GST-tagged

Cat. No. SMARCA2-159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BRM bromodomain (1367-1511 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	1367-1511 a.a.
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. BRM 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.
Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5% glycerol, and 5 mM β-mercaptoethanol.
Molecular Mass	43.7 kDa (1367-1511 aa + NT GST Tag)

 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

Purity	≥95%
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.
GENE INFORMATION	
Gene Name	SMARCA2 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Homo sapiens]
Official Symbol	SMARCA2
Synonyms	SMARCA2; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2; SNF2L2; probable global transcription activator SNF2L2; BAF190; BRM; hBRM; hSNF2a; SNF2; SNF2LA; Sth1p; SWI2; BAF190B; SNF2-alpha; protein brahma homolog; SNF2/SWI2-like protein 2; BRG1-associated factor 190B; ATP-dependent helicase SMARCA2; sucrose nonfermenting 2-like protein 2; global transcription activator homologous sequence; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2; FLJ36757; MGC74511;
Gene ID	6595
mRNA Refseq	NM_003070
Protein Refseq	NP_003061
MIM	600014
UniProt ID	P51531
Chromosome Location	9p24.3

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Pathway	C-MYB transcription factor network, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Regulation of Androgen receptor activity, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; RNA polymerase II transcription coactivator activity; helicase activity; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; nucleotide binding; protein binding; transcription coactivator activity; transcription regulatory region DNA binding;

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