

Recombinant Human SMARCA4 Protein (1448-1569), N-GST tagged

Cat. No. SMARCA4-16H Lot. No. (See product label)

SPECIFICATION

Product Overview	The peptide 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 GST-Tag with an observed molecular weight of 41.6 kDa. It shows binding specificity for acetylated H2BK5, H3K14 and H3K9/14.
Species	Human
Source	E.coli
ProteinLength	1448-1569
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.
Molecular Mass	41.6 kDa

 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	The recombinant protein is >90% pure by SDS-PAGE.
Applications	Recombinant SMARCA4/BRG1 (1448-1569), GST-Tag is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.3 µg/µL
Storage Buffer	25 mM Tris-HCl pH 7.4, 150 mM NaCl, 5% glycerol
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; CSS4; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A; SNF2-beta; transcription activator BRG1; ATP-dependent helicase SMARCA4; BRG1-associated factor 190A; BRM/SWI2-related gene 1; SNF2-like 4; brahma protein-like 1; global transcription activator homologous sequence; homeotic gene regulator; mitotic growth and transcription activator; nuclear protein GRB1; protein BRG-1; protein brahma homolog 1; sucrose nonfermenting-like 4
Gene ID	6597

 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

mRNA Refseq [NM_003072](#)

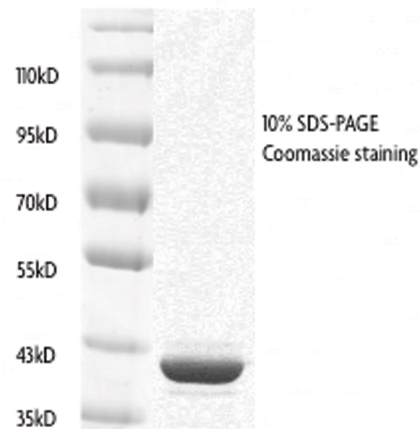
Protein Refseq [NP_003063](#)

MIM [603254](#)

UniProt ID [P51532](#)

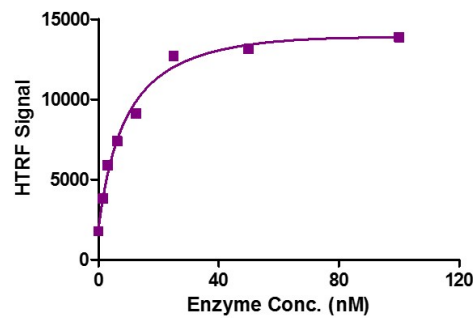
SDS-PAGE


SMARCA4 (1448-1569)



Recombinant
SMARCA4/BRG1
(1448-1569) HTRF
activity assay.

GST-SMARCA4 Titration



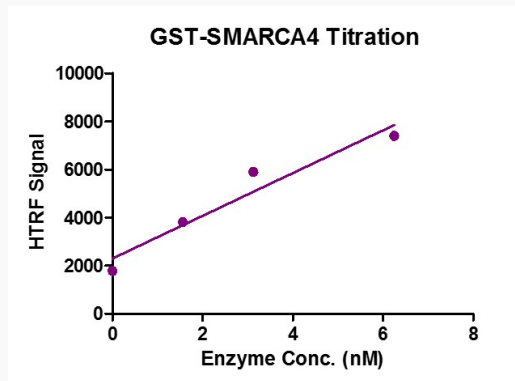
 Tel: 1-631-559-9269 1-516-512-3133

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

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

3.3 μM histone peptide H4K5/8/12/16(4Ac) was incubated with SMARCA4/BRG1 (1448-1569) protein in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-GST antibody was used to detect reaction products.


**Recombinant
SMARCA4/BRG1
(1448-1569) HTRF
activity assay.**



3.3 μM histone peptide H4K5/8/12/16(4Ac) was incubated with SMARCA4/BRG1 (1448-1569) protein in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-GST antibody was used to detect reaction products.

 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