

SMARCA4 active protein

Recombinant SMARCA4 (658-1328) protein

CATALOG #
AAA60347

HOST
Baculovirus

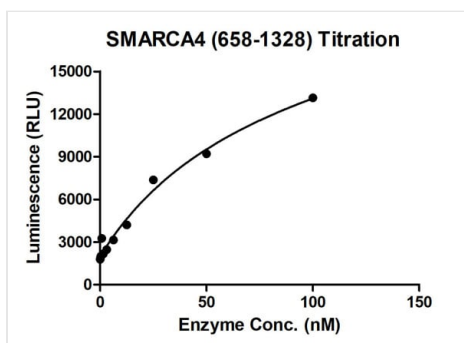
PRODUCT SYNONYMS

SMARCA4; Recombinant SMARCA4 (658-1328) protein; BRG1; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A; SMARCA4 active protein

PRODUCT SPECIFICATIONS

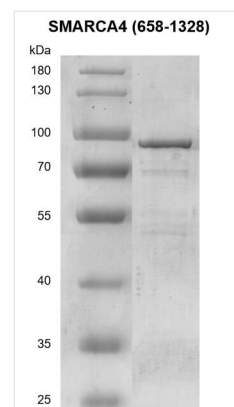
Host	Baculovirus
Form/Format	Recombinant SMARCA4 (658-1328) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Source	Human
Tag	N terminal DYKDDDDK-Tag
Protein Details	Recombinant SMARCA4 protein that includes amino acids 658-1328 of human SMARCA4 protein (accession number NP_001122317.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 78.8 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and 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. T

IMAGES



Bioactivity

ADP-Glo assay for SMARCA4 (658-1328) activity (Data from ICE Bioscience Inc.) 100 uM ATP and 10 nM DNA was incubated with different concentrations of SMARCA4 (658-1328) protein in a 10 ul reaction system containing 20 mM HEPES pH 7.5, 10 mM MgCl₂, 50 mM NaCl, 0.1% Tween-20, 1 mM DTT for 1 hour, 10 ul ADP-Glo Reagent was added to the products and incubated for 1 hour. Then 20 ul Kinase Detection Reagent incubated for 1 hour. All the operations and reactions were performed at RT. Luminescence measurement is collected by BMG.



SDS-PAGE

Recombinant SMARCA4 (658-1328) protein 10% SDS-PAGE Coomassie staining MW: 78.8 kDa Purity: >85%

ADDITIONAL INFORMATION

Related Product Information for SMARCA4 active protein	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. SMARCA4 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. Gene mutation causes Rhabdoid Tumor Predisposition Syndrome Type 2. SMARCA4 functions as a transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. It also interacts with glucocorticoid receptor (GR), TOPBP1 and progesterone receptor (PR) and is a component of the BAF53 complex which acetylates histone H4 and H2A within nucleosomes. Somatic mutations of SMARCA4 have been detected in some cancer cell lines and loss of SMARCA4 is associated with decreased survival in cancer patients. It shows binding specificity for acetylated H2BK5, H3K14 and H3K9.
Product Categories/Family for SMARCA4 active protein	Bromodomain; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/baculovirus-active-protein/smarca4/60347>