

SMARCA2 active protein

Recombinant SMARCA2 (636-1131) protein

CATALOG # AAA60346	HOST Baculovirus
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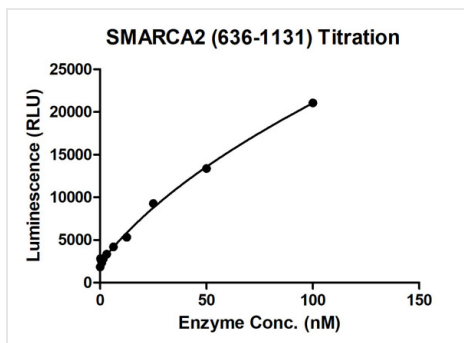
PRODUCT SYNONYMS

SMARCA2; Recombinant SMARCA2 (636-1131) protein; BRM; SNF2; SWI2; hBRM; NCBRS; Sth1p; BAF190; SNF2L2; SNF2LA; hSNF2a; SMARCA2 active protein

PRODUCT SPECIFICATIONS

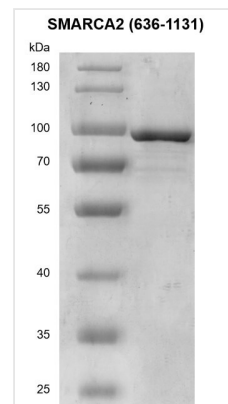
Host	Baculovirus
Form/Format	Recombinant SMARCA2 (636-1131) protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Source	Human
Tag	N terminal DYKDDDDK-Tag
Protein Details	Recombinant SMARCA2 protein that includes amino acids 636-1131 of human SMARCA2 protein (accession number NP_001276325.1) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 82.5 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.

IMAGES



Bioactivity

ADP-Glo assay for SMARCA (636-1131) activity (Data from ICEB Bioscience Inc.) 100 uM ATP and 10 nM DNA was incubated with different concentrations of SMARCA2 (636-1131) 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 SMARCA2 (636-1131) protein 10% SDS-PAGE Coomassie staining MW: 82.5 kDa Purity: > 90%

ADDITIONAL INFORMATION

Related Product Information for SMARCA2 active protein	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), also known as BRM, 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. SMARCA2 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. SMARCA2 is involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR). SMARCA1 belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). SMARCA2 plays a pivotal role in the regulation of the switch in subunit composition of the npBAF and nBAF complexes as cells transition from proliferating neural stem/progenitor cells to post-mitotic neurons during neural development. It shows binding specificity for acetylated H3K9, H3K14, H3K9/14, H4K8, H4K12, H4K16 and H4K5/8/12/16.
Product Categories/Family for SMARCA2 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://stage.aaabiotech.com/baculovirus-active-protein/smarca2/60346>