

Recombinant Human SMARCA4 Protein (658-1328), N-FLAG tagged

Cat. No. SMARCA4-05H Lot. No. (See product label)

SPECIFICATION

Product Overview	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 FLAG tag. The molecular weight of the protein is 78.8 kDa.
Species	Human
Source	Insect Cells
ProteinLength	658-1328
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	78.8 kDa

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Purity	≥ 85%
Stability	This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.
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.
Storage Buffer	25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP
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
mRNA Refseq	NM_003072

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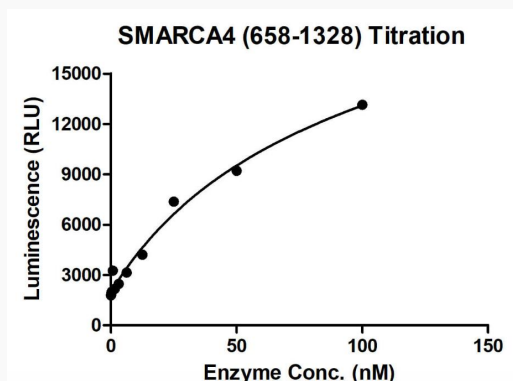
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Protein Refseq NP_003063

MIM 603254

UniProt ID P51532

**ADP-Glo assay for
SMARCA4 (658-1328)
activity**



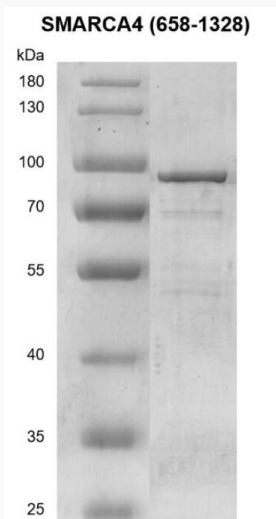
100 μ M ATP and 10 nM DNA was incubated with different concentrations of SMARCA4 (658-1328) protein in a 10 μ L reaction system containing 20 mM HEPES pH 7.5, 10 mM MgCl₂, 50 mM NaCl, 0.1% Tween-20, 1 mM DTT for 1 hour, 10 μ L ADP-Glo Reagent was added to the products and incubated for 1 hour. Then 20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

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**Recombinant
SMARCA4 (658-1328)
protein**



10% SDS-PAGE Coomassie staining

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