

SMYD2 recombinant protein

Recombinant SMYD2 protein

CATALOG #
AAA59718

HOST
Baculovirus

PRODUCT SYNONYMS

SMYD2; Recombinant SMYD2 protein; KMT3C; HSKM-B; ZMYND14; SMYD2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	The recombinant protein is >90% pure by SDS-PAGE.
Form/Format	Full length recombinant SMYD2 protein expressed in Sf9 cells and is supplied in 25mM Hepes pH7.5, 300mM NaCl, 5% Glycerol, 0.04% Triton X-100, 0.2mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant SMYD2 is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. HMT Assay Conditions: 2ug Calf Thymus Octamer was incubated with different concentrations of recombinant SMYD2 protein in reaction buffer containing 50mM TrisCl pH 8.6, 0.02% Triton X-100, 2mM MgCl2, 1mM TCEP, 100uM 3H-SAM for 3 hours at room temperature. Activity was detected by Autoradiography.
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 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

Recombinant SMYD2 protein activity assay 2 ug Calf Thymus Octamers was incubated with 0.5 ug and 1 ug SMYD2 protein respectively in reaction buffer containing radioactive 3H-SAM for 3 hours at room temperature. Activity was detected by Autoradiography. *Our result showed that H4 may also be methylated by SMYD2.



SDS-PAGE

Recombinant SMYD2 protein gel SMYD2 protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for SMYD2 recombinant protein	Short Description: Recombinant SMYD2 protein (accession number NP_064582.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK-Tag with a molecular weight of 50.7 kDa. The recombinant protein is >90% pure by SDS-PAGE. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: SMYD2 (SET and MYND domain containing protein 2) is a lysine methyltransferase that methylates both histones and non-histone proteins. Specifically, SMYD2 methylates histone H3 Lys4 (H3K4me1) and dimethylates histone H3 Lys36 (H3K36me2). SMYD2 also exhibits methyltransferase activity toward non-histone proteins such as p53 and pRb. SMYD2 monomethylates Lys370 of p53, leading to decreased DNA-binding activity and subsequent inhibition of p53-mediated transcriptional regulation. SMYD2 also monomethylates Lys860 of pRb.
Product Categories/Family for SMYD2 recombinant protein	Recombinant Proteins; Histone Methyltransferase (HMT)

NCBI AND UNIPROT INFORMATION

NCBI GI #	188035871
NCBI GeneID	56950
NCBI Accession #	NP_064582.2
NCBI GenBank Nucleotide #	NM_020197
UniProt Accession #	Q9NRG4; Q4V765; Q5VSH9; Q96AI4; B2R9P9; I6L9H7
Molecular Weight	50
NCBI Official Full Name	N-lysine methyltransferase SMYD2
NCBI Official Synonym Full Names	SET and MYND domain containing 2
NCBI Official Symbol	SMYD2
NCBI Official Synonym Symbols	KMT3C; HSKM-B; ZMYND14
NCBI Protein Information	N-lysine methyltransferase SMYD2
UniProt Protein Name	N-lysine methyltransferase SMYD2
UniProt Gene Name	SMYD2
UniProt Synonym Gene Names	KMT3C
UniProt Entry Name	SMYD2_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/smyd2-recombinant-protein-baculovirus/59718>