Recombinant Human SMYD1, FLAG-tagged

Cat. No. Smyd1-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Smyd1 (accession number NP_938015.1) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 58.3 kDa.
Species	Human
Source	Sf9 Cells
Description	SET and MYND domain-containing protein 1 (Smyd1) is a member of the Smyd family of histone methyltransferases that possesses H3K4 methyltransferase activity. It has also been shown to act as a transcriptional repressor. Studies suggest that Smyd1 may play a critical role in cardiomyocyte differentiation and cardiac morphogenesis and that it also may have a function in skeletal muscle development.
Form	20 mM Tris-HCl pH 7.4, 150 mM NaCl and 20% glycerol.
Bio-activity	Not known. May methylate non-histone substrates.
Applications	Enzyme kinetics, inhibitor screening, and selectivity profiling.
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.
Concentration	0.4 mg/ml

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GENE INFORMATION

Gene Name	SMYD1 SET and MYND domain containing 1 [Homo sapiens]
Official Symbol	Smyd1
Synonyms	SMYD1; SET and MYND domain containing 1; SET and MYND domain-containing protein 1; BOP; KMT3D; ZMYND22; CD8 beta opposite; zinc finger, MYND domain containing 18; ZMYND18;
Gene ID	150572
mRNA Refseq	NM_198274
Protein Refseq	NP_938015
MIM	606846
UniProt ID	Q8NB12
Chromosome Location	2p11.1
Pathway	Heart Development, organism-specific biosystem;
Function	DNA binding; metal ion binding; transcription corepressor activity; zinc ion binding;

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