Recombinant Human SET And MYND Domain Containing 3, His-tagged

Cat. No. SMYD3-666H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SET And MYND Domain Containing 3 encoding the human SMYD3 isoform 1 (Met 1-Ser 428) was fused with the His tag at the C-terminus. It was Expressed in*Human Cells*.
Species	Human
Source	Human Cells
ProteinLength	1-428 a.a.
Description	SET and MYND domain-containing protein 3, also known as Zinc finger MYND domain-containing protein 1, SMYD3, and ZMYND, is a member of the histone-lysine methyltransferase family. SMYD3 contains one MYND-type zinc finger and one SET domain. SMYD3 is a histone H3 lysine-4-specific methyltransferase. It is expressed in skeletal muscles and testis. It is overexpressed in a majority of colorectal carcinoma (CRC) and hepatocellular carcinoma (HCC). SMYD3 plays an important role in transcriptional regulation in human carcinogenesis.
Purity	>90 % as determined by SDS-PAGE.
Endotoxin	< 1.0 EU per 1μg of the protein as determined by the LAL method.
Stability	Samples are stable for up to twelve months from date of receipt at -70^{0}C.

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Predicted N Terminal	Met.
Molecular Mass	The recombinant human SMYD3 consists of 447 amino acids and predicts a molecular mass of 51.5 kDa. It migrates as an approxiamtely 49 KDa band in SDS-PAGE under reducing conditions
Formulation	Supplied as a 0.2μm filtered solution of 25 mM Tris-HCl, 100 mM NaCl, 20% glycerol, 3 mM DTT, pH 8.0.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4^0C before opening to recover the entire contents.
Storage	Store it under sterile conditions at -70^0C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SMYD3 SET and MYND domain containing 3 [Homo sapiens]
Synonyms	SET and MYND domain containing 3; KMT3E; ZMYND1; ZNFN3A1; FLJ21080; MGC104324; bA74P14.1; SMYD3; bA74P14.1 (novel protein); zinc finger, MYND domain containing 1; zinc finger protein, subfamily 3A (MYND domain containing), 1; EC 2.1.1.43; Zinc finger MYND domain-containing protein 1
Gene ID	64754
mRNA Refseq	NM_001167740
Protein Refseq	NP_001161212
MIM	608783

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UniProt ID	Q9H7B4
Chromosome Location	1q44
Function	histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; protein binding; transferase activity; zinc ion binding

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