

Recombinant Human SET And MYND Domain Containing 2, His-tagged

Cat. No. SMYD2-921H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human SMYD3 protein (Lys 35 - Ser 369), fused with the GST tag at the N-terminus, was expressed in *Insect cells*.

Species

Human

Source

Insect Cells

ProteinLength

35-369 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. It activates the transcription of a set of downstream genes. Of these downstream genes, there are several oncogenes and genes associated with cell adhesion (including those of N-Myc, CrkL, Wnt10b, L-selectin, CD31 and galectin-4), which have been shown to have effects on cell viability, adhesion, migration and metastasis.

Molecular Mass

The recombinant human SMYD3 / GST chimera consists of 559 amino acids and predicts a molecular mass of 656kDa. It migrates as an approximately 58 KDa band

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in SDS-PAGE under reducing conditions.

Predicted N Terminal Met.

Purity > 88 % as determined by SDS-PAGE.

Formulation Lyophilized from sterile 20mM Tris, 150mM NaCl, 0.5mM DTT, 0.5mM GSH , pH 8.0.

Endotoxin < 1.0 EU per 1µg of the protein as determined by the LAL method.

Reconstitution A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

Storage And Stability Samples are stable for up to twelve months from date of receipt at -70°C. It is recommended that the protein be aliquoted 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](#)


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MIM	608783
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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