

## Recombinant Human SMYD3/ZMYND1 Protein (His&FLAG Tag)

Catalog No. PKSH031188

*Note:* Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Synonyms bA74P14.1;KMT3E;ZMYND1;ZNFN3A1

Species Human

Expression Host HEK293 Cells
Sequence Met 1-Ser 428
Accession NP\_001161212.1

Calculated Molecular Weight 51.5 kDa

Observed molecular weight 49 kDa

Tag C-His & N-Flag

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 70 % as determined by reducing SDS-PAGE.

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

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 25mM Tris-HCl, 100mM NaCl, 20% glycerol, 3mM DTT,

pH 8.0

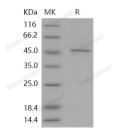
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

# <u>Data</u>



> 70 % as determined by reducing SDS-PAGE.

## **Background**

SET and MYND domain-containing protein 3, also known as Zinc finger MYND domain-containing protein 1, SMYD3,

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and ZMYND, is a member of the histone-lysine methyltransferase family. SMYD3 contains one MYND-type zinc finger and oneSET 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. Increased SMYD3 expression is essential for the proliferation of breast cancer cells. SMYD3 may be a promising new target of therapeutic intervention for the treatment of cancers or other pathological processes associated with cell adhesion and migration.

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