

SMYD3 Protein, Human (HEK293, His-Flag)

Cat. No.:	HY-P76081
Synonyms:	Histone-lysine N-methyltransferase SMYD3; ZMYND1; ZNFN3A1
Species:	Human
Source:	HEK293
Accession:	Q9H7B4 (M1-S428)
Gene ID:	64754
Molecular Weight:	Approximately 49 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 25 mM Tris-HCl, 100 mM NaCl, 20% Glycerol, 3 mM DTT, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SMYD3 Protein, a histone methyltransferase, exhibits specificity in methylating 'Lys-4' of histone H3, inducing both di- and tri-methylation but not monomethylation. Additionally, it methylates 'Lys-5' of histone H4. Within an RNA polymerase complex, SMYD3 plays a crucial role in transcriptional activation. The protein is noted for its ability to bind DNA sequences containing 5'-CCCTCC-3' or 5'-GAGGGG-3'.
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Caution: Product has not been fully validated for medical applications. For research use only.

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