

## SMYD3 Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms:	ZNFN3A1;Histone-lysine N-methyltransferase SMYD3;SET and MYND domain-containing protein 3;ZMYND1;Zinc finger MYND domain-containing protein 1;SMYD3
Protein Construction:	1-428 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9H7B4
Molecular Weight:	56.5 kDa (predicted)
AA Sequence:	MEPLKVEKFATAKRGNGLRVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLGKEKLMRCSQCRVAKYCSA KCQKKAHPDHPKRECKCLKSCKPRYPDSVRLGRVVFKLMDGAPSESEKLYSFYDLESNINKLTEDKKEGLRQ LVMTFQHFMRREEIQDASQLPPAFDLFEAFKVICNSFTICNAEMQEVGGLYPSISLLNHSCDPNCSIVFNGPH LLLRAVRDIEVGEELTICYLDMLMTSEERRKQLRDQYCFECDFRCQTQDKDADMLTGDEQVWKEVQESLKKI EELKAHWKWEQVLAMCQAISSNSERLPDINIYQLKVLDCAMDACINLGLLEALFYGTRTMOPYRIFFPGSHP VRGVQVMKVGKQLHQMFPQAMKNLRLAFDIMRVTHGREHSLIEDLILLEECDANIRAS

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Histone methyltransferase. Specifically methylates 'Lys-4' of histone H3, inducing di- and tri-methylation, but not monomethylation. Also methylates 'Lys-5' of histone H4. Plays an important role in transcriptional activation as a member of an RNA polymerase complex. Binds DNA containing 5'-CCCTCC-3' or 5'-GAGGGG-3' sequences.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481