

Histone-lysine N-methyltransferase SMYD3(SMYD3) Protein, Human (His-Myc)

Cat. No.: HY-P700258
Synonyms:
Species: Human
Source: E. coli
Accession: Q9H7B4
Gene ID: 64754
Molecular Weight: 56.5 kDa

PROPERTIES

AA Sequence

MEPLKVEKFA
TAKRGNGLRA
VTPLRPGELL
FRSDPLAYTV
CKGSRGVVCD
RCLLGKEKLM
RCSQCRVAKY
CSAKCQKKAW
PDHKRECKCL
KSCKPRYP
SVRLLRGVVF
KLMDGAPSES
EKLYSFYDLE
SNINKLTEDK
KEGLRQLVMT
FQHFMREEIQ
DASQLPPAFD
LFEAFKVIC
NSFTICNAEM
QEVGVGLYPS
ISLLNHSCDP
NCSIVFNPH
LLLRVRDIE
VGEELTICYL
DMLMTSEERR
KQLRDQYCFE
CDCFRCQTQD
KDADMLTGDE
QVWKEVQESL
KKIEELKAHW
KWEQVLAMCQ
AIISSNSERL
PDINIYQLKV
LDCAMDACIN
LGLLEEALFY
GTRTMEPYRI
FFPGSHVVRG
VQVMKVGKLQ
LHQGMFPQAM
KNLRLAFDIM
RVTHGREHSL
IEDLILLEE
CDANIRAS

Appearance

Lyophilized powder.

Formulation

Lyophilized from a solution containing Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

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'.

Caution: Product has not been fully validated for medical applications. For research use only.

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