

Active Recombinant Human KMT5A Protein, His-tagged

Cat. No. KMT5A-139H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal hexahistidine-tagged human KMT5A protein (190-352) was purified from E. coli.
Species	Human
Source	E.coli
ProteinLength	190-352
Description	The protein encoded by this gene is a protein-lysine N-methyltransferase that can monomethylate Lys-20 of histone H4 to effect transcriptional repression of some genes. The encoded protein is required for cell proliferation and plays a role in chromatin condensation.
Bio-activity	Qualitative biological assay-reduces uptake of LDL-DyLight™ by > 30% in Huh7 cells at concentrations above 5 µg/mL. Activity was determined using 50 µM substrate peptide (AKRHRKVLRD) at 37 centigrade using a Methyltransferase Colorimetric Assay Kit.
Molecular Mass	21.1 kDa
Purity	≥90% as determined by SDS-PAGE
Stability	≥ 6 months

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Storage At -80 centigrade.

Storage Buffer 50 mM sodium phosphate, pH 7.2, with 100 mM sodium chloride and 20% glycerol

GENE INFORMATION

Gene Name KMT5A lysine methyltransferase 5A [Homo sapiens (human)]

Official Symbol KMT5A

Synonyms

KMT5A; lysine methyltransferase 5A; SET8; SET07; SETD8; PR-Set7; PR/SET07; N-lysine methyltransferase KMT5A; H4-K20-HMTase KMT5A; H4-K20-HMTase SETD8; H4-K20-specific histone methyltransferase; H4K20-specific histone methyltransferase splice variant Set8b; N-lysine methyltransferase SETD8; PR/SET domain containing protein 8; PR/SET domain-containing protein 07; SET domain containing (lysine methyltransferase) 8; SET domain-containing protein 8; histone-lysine N-methyltransferase KMT5A; histone-lysine N-methyltransferase SETD8; lysine (K)-specific methyltransferase 5A; lysine N-methyltransferase 5A; lysine-specific methylase 5A; EC 2.1.1.361

Gene ID 387893

mRNA Refseq NM_020382

Protein Refseq NP_065115

MIM 607240

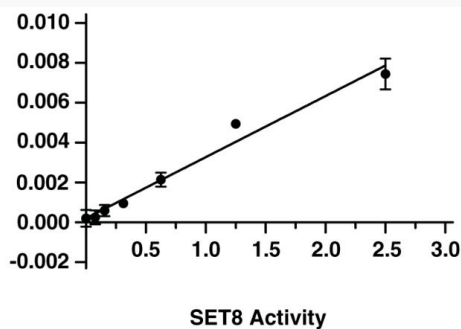
UniProt ID Q9NQR1

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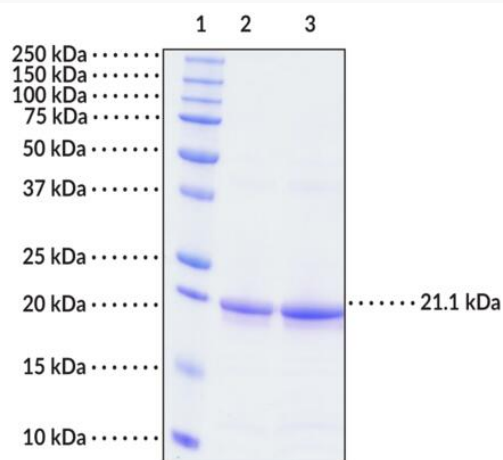
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KMT5A Activity



KMT5A activity was determined using Methyltransferase Colorimetric Assay Kit

SDS-PAGE analysis of KMT5A



Lane 1: MW Ladder

Lane 2: KMT5A (2 µg)

Lane 3: KMT5A (4 µg)