

PR-Set7 Protein, Human

Cat. No.:	HY-P74613
Synonyms:	N-lysine methyltransferase KMT5A; PR-Set7; KMT5A; PRSET7; SET8; SETD8
Species:	Human
Source:	E. coli
Accession:	NP_065115.3 (K195-H352)
Gene ID:	387893
Molecular Weight:	Approximately 18 kDa

PROPERTIES

AA Sequence	<p> K A E L Q S E E R K R I D E L I E S G K E E G M K I D L I D G K G R G V I A T K Q F S R G D F V V E Y H G D L I E I T D A K K R E A L Y A Q D P S T G C Y M Y Y F Q Y L S K T Y C V D A T R E T N R L G R L I N H S K C G N C Q T K L H D I D G V P H L I L I A S R D I A A G E E L L Y D Y G D R S K A S I E A H P W L K H </p>
Biological Activity	Measured in a cell proliferation assay using MDA-MB-231 cells. The ED ₅₀ for this effect is 26.51 ng/mL, corresponding to a specific activity is 3.772×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The PR-Set7 protein is a protein-lysine N-methyltransferase responsible for monomethylating Lys-20 of histone H4, leading to the transcriptional repression of specific genes. It plays a crucial role in cell proliferation and contributes to chromatin condensation. The protein exhibits widespread expression in various tissues, including the prostate (RPKM 17.6), esophagus (RPKM 16.8), and 25 other tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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