JMJD1C Protein, Human (His-SUMO-Myc)

Cat. No.:	HY-P71548
Synonyms:	Jmjd1c; Jumonji domain containing 1C ; Jumonji domain-containing protein 1C; Probable JmjC domain-containing histone demethylation protein 2C; Thryoid receptor interacting protein; Thyroid receptor-interacting protein 8; TR-interacting protein 8; TRIP-8; TRIP8
Species:	Human
Source:	E. coli
Accession:	Q15652 (2274M-2498R)
Gene ID:	221037
Molecular Weight:	Approximately 45.5 kDa

PROPERTIES

AA Sequence	M P A R Y E D L L K S L P L P E Y C N P E G K F N L A S H L P G F F V R P D L G P R L C S A Y G V V A A K D H D I G T T N L H I E V S D V V N I L V Y V G I A K G N G I L S K A G I L K K F E E E D L D D I L R K R L K D S S E I P G A L W H I Y A G K D V D K I R E F L Q K I S K E Q G L E V L P E H D P I R D Q S W Y V N K K L R Q R L L E E Y G V R T C T L I Q F L G D A I V L P A G A L H Q V Q N F H S C I Q V T E D F V S P E H L V E S F H L T Q E L R
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 JMJD1C protein is identified as a probable histone demethylase with a specific role in demethylating 'Lys-9' of histone H3, thereby exerting a central influence on the histone code. This demethylase activity results in the generation of formaldehyde and succinate. Beyond its enzymatic function, JMJD1C is implicated in potential involvement in hormone-dependent transcriptional activation, suggested by its participation in the recruitment to androgen-receptor target genes. This multifaceted role underscores JMJD1C's significance in epigenetic regulation and its potential contribution to the

	dynamic interplay of histone modifications in the context of gene expression.

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