

SUV420H2 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	suppressor of variegation 4-20 homolog 2 (Drosophila);KMT5C
Protein Construction:	A DNA sequence encoding the amino acid sequence (Gly 2-Leu 280) of human SUV420H2 (NP_116090.2) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	Q86Y97-1
Molecular Weight:	60 kDa (predicted); 60 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris, 0.5M NaCl, 30% Glycerol, 0.05% Tween, pH 8.0.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

Protein Background

Histone-lysine N-methyltransferase SUV42H2, also known as Suppressor of variegation 4-2 homolog 2, Su(var)4-2 homolog 2, Lysine N-methyltransferase 5C, SUV42H2 and KMT5C, is nucleus protein that belongs to the histone-lysine methyltransferase family and Suvar4-2 subfamily. SUV42H2 is a histone methyltransferase that specifically trimethylates 'Lys-2' of histone H4. H4 'Lys-2' trimethylation represents a specific tag for epigenetic transcriptional repression. SUV42H2 mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. SUV42H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). FRAP experiments reveal that SUV42H2 is strongly

associated with pericentric heterochromatin. The fraction of SUV42H2 captured and characterized by TAP/MS is a soluble fraction which may be in a stable association with HP1. SUV42H2 may be recruited to heterochromatin in association with HP1, and stably maintained at its heterochromatin sites in an HP1-independent fashion.

Reference

Wan D. et al., 2004, Proc. Natl. Acad. Sci. USA. 101:15724-9.

Souza, PP. et al., 2009, BMC Cell Biol. 10: 41.

Matsui, T. et al., 2010, Nature. 464 (7290): 927-31.

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