Recombinant Human SUV420H2 Protein (His &GST Tag)

Catalog Number: PKSH030951

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

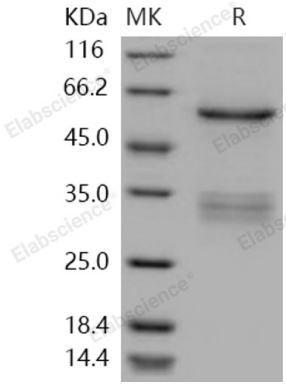
Description

Species	Human
Source	E.coli-derived Human SUV420H2 protein Gly 2-Leu 280, with an N-terminal His & GST
Calculated MW	60.0 kDa
Observed MW	60 kDa
Accession	NP_116090.2
Bio-activity	Not validated for activity

Properties

Purity	> 80 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile 50mM Tris, 0.5M NaCl, 30% Glycerol, 0.05% Teween, pH 8.0

Data



> 80 % as determined by reducing SDS-PAGE.

Background

Histone-lysine N-methyltransferase SUV420H2, also known as Suppressor of variegation 4-20 homolog 2, Su(var)4-20 homolog 2, Lysine N-methyltransferase 5C, SUV420H2 and KMT5C, is nucleus protein which belongs to thehistone-lysine methyltransferase family and Suvar4-20 subfamily. SUV420H2 is a histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. SUV420H2 mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. SUV420H1 is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). FRAP experiments reveal that SUV420H2 is strongly associated to pericentric heterochromatin. The fraction of SUV420H2 captured and characterized by TAP/MS is a soluble fraction which may be in a stable association with HP1. SUV420H2 may be recruited to heterochromatin in association with HP1, and stably maintained at its heterochromatin sites in an HP1-independent fashion.

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