DOT1 Catalytic Domain, human

Catalog No.	15-1001
Lot No.	13140001
Pack Size	50 µg

Expressed In E. coli Type HMT Mol. Wgt. 85 kDa

Epitope Tag GST

Product Description:

Recombinant human DOT1 protein, catalytic domain (DOT1L, KMT4, accession Q8TEK3, amino acids 1-472), containing an N-terminal GST tag, expressed in E. coli. DOT1 is a histone methyltransferase, catalyzing the methylation of histone H3 at lysine 79 on nucleosomal substrates.





Enzyme Activity Data: Recombinant DOT1L Catalytic Domain, human (5 μ g) was used in a methylation assay with 1 µg recombinant *Xenopus* nucleosomes and radioactive SAM and the reaction was run on a PAGE gel. Lane 1: GST only vector. Lane 2: GST-DOT1L vector. Left Panel: Coomassie stained gel. Right panel: Autoradiograph.



Protein Gel Data: Recombinant DOT1L Catalytic Domain, human (1 µg) run on a PAGE gel and stained with Coomassie blue. Migration and molecular weight of protein standards is indicated.

Formulation:

Recombinant GST-DOT1L (1 µg/µl) 100 mM Tris pH 8.0, 5 mM glutathione and 25% glycerol.

Storage and Stability:

Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.

Application Notes:

Recombinant DOT1L Catalytic Domain, human is useful for histone H3 methylation experiments, enzyme kinetics and inhibitor screening. Use of 3-5 µg DOT1 per reaction with HeLa or recombinant nucleosomes as a substrate is recommended.

References:

Kuo AJ et al (2011). Mol Cell 44: 609-620.

This product is for *in vitro* research use only and is not intended for use in humans or animals.