

KMT2D Protein, Human

Cat. No.:	HY-P701589
Synonyms:	KMT2D; Histone-lysine N-methyltransferase 2D; Lysine N-methyltransferase 2D; ALL1-related protein; Myeloid/lymphoid or mixed-lineage leukemia protein 2
Species:	Human
Source:	E. coli
Accession:	O14686 (H5382-M5536)
Gene ID:	8085
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol, 1 mM DTT.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	KMT2D Protein, a histone methyltransferase, orchestrates the transfer of methyl groups from S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' on histone H3 (H3K4). Integral to the chromatin remodeling machinery, it predominantly establishes H3K4me1 methylation marks at active chromatin sites associated with transcription and DNA repair processes. Functioning as a coactivator for the estrogen receptor, KMT2D is recruited by ESR1, thereby activating transcription. The enzyme's activity in depositing specific histone marks at functionally relevant genomic locations underscores its crucial role in modulating chromatin structure and gene expression.
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Caution: Product has not been fully validated for medical applications. For research use only.

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