

Product datasheet for TP319244L

SETD7 (NM_030648) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human SET domain containing (lysine methyltransferase) 7 (SETD7), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219244 representing NM_030648 Red =Cloning site Green =Tags(s)

MDSDDDEMVEEAVEGHLDDDDGLPHGFCTVYTSSTDRFEGNFVHGEKNGRGKFFFFDGGSTLEGYYVDDALQG
QGVYTYEDGGVLQGTYYVDGELNGPAQEYDTDGRLIFKGQYKDNIRHGVCWIYYPDGGSLVGEVNEDEGEMT
GEKIAYVYPDERTALYGKFDGEMIEGKLATLMSTEEGRPHFELMPGNSVYHFDKSTSSCISTNALLPDP
YESERVYVAESLISSAGEGLFSKVAVGPNTVMSFYNGVRITHQEVDSDRDWALNGNTLSLDEETVIDVPEP
YNHVSKEYCASLGHKANHSFTPNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSPPGKSGPEAP
EWYQVELKAFQATQQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	40.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_085151</u>



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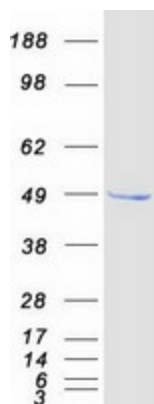
Locus ID: 80854
UniProt ID: [Q8WTS6](#)
RefSeq Size: 7012
Cytogenetics: 4q31.1
RefSeq ORF: 1098
Synonyms: KMT7; SET7; SET7/9; SET9

Summary: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

Product images:



Coomassie blue staining of purified SETD7 protein (Cat# [TP319244]). The protein was produced from HEK293T cells transfected with SETD7 cDNA clone (Cat# [RC219244]) using MegaTran 2.0 (Cat# [TT210002]).