

Product datasheet for TP319244

SETD7 (NM_030648) Human Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human SET domain containing (lysine methyltransferase) 7 (SETD7), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC219244 representing NM_030648 Red =Cloning site Green =Tags(s) |

MDSDDDEMVEEAVEGHLDDDG LPHGFCTVYTSSTDRFEGNFVHGEKNGRGKFFFFDGGSTLEGYYVDDALQG
QGVYTYEDGGVLQGTVDGELNGPAQEYD TDGRLIFKGQYKDNIRHGVCWIYPDGGSLVGEVNE DGMET
GEKIAYVYPDERTALYGKFDGEMIEGKLATLMSTEEGRPHFELMPGNSVYHFDKSTSSCISTNALLPDP
YESERVVAESLISSAGEGLFSKVAVGPNTVMSFYNGVRITHQEVD SRDWALNGNTLSLDEETVIDVPEP
YNHVS KYCASLGHKANHSFTPNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYDHSPPGKSGPEAP
EWYQVELKAFQATQK

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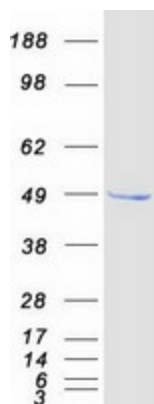
Locus ID: 80854
UniProt ID: [Q8WTS6](#)
RefSeq Size: 7012
Cytogenetics: 4q31.1
RefSeq ORF: 1098
Synonyms: KMT7; SET7; SET7/9; SET9

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]).