

Recombinant Human TET1, GST-tagged

Cat. No. TET1-235H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TET1 (1598-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1598-end a.a.
Description	TET1 Protein or tet methylcytosine dioxygenase 1 is the original member of a family of methylcytosine dioxygenases that perform several steps required for cytosine demethylation and gene activation. TET proteins have potential roles in epigenetic regulation through modification of 5mC to hmC. TET1 plays a main role in modulating DNA methylation levels at CpG-rich promoters and also helps in promoting transcription of pluripotency factors as well as participating in the repression of Polycomb-targeted developmental regulators.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~110 kDa
Purity	>90% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	TET1?tet methylcytosine dioxygenase 1 [?Homo sapiens?(human)]
Official Symbol	TET1
Synonyms	TET1; LCX; CXXC6; bA119F7.1; tet methylcytosine dioxygenase 1; methylcytosine dioxygenase TET1; CXXC finger 6; tet oncogene 1; CXXC zinc finger 6; ten-eleven translocation-1; CXXC-type zinc finger protein 6; ten-eleven translocation 1 gene protein; leukemia-associated protein with a CXXC domain; EC 1.14.11.n2
Gene ID	80312
mRNA Refseq	NM_030625
Protein Refseq	?NP_085128
MIM	607790
UniProt ID	Q8NFU7
Chromosome Location	10q21
Function	iron ion binding; methylcytosine dioxygenase activity; structure-specific DNA binding

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