

Active Recombinant Human TET1, Flag-tagged

Cat. No. TET1-997H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TET1(1418 a.a. - 2136 a.a.), fused with FLAG-tag at N-terminal, was expressed in Baculovirus infected sf9 cell expression system.
Species	Human
Source	Sf9 Cells
ProteinLength	1418-2136 a.a.
Description	Ten-eleven translocation methylcytosine dioxygenase 1 (TET1) is a member of the TET family of enzymes that in humans is encoded by the TET1 gene. TET1 catalyzes the conversion of the modified DNA base 5-methylcytosine (5-mC) to 5-hydroxymethylcytosine (5-hmC). TET1 produces 5-hmC by oxidation of 5-mC in an iron and alpha-ketoglutarate dependent manner. The conversion of 5-mC to 5-hmC has been proposed as the initial step of active DNA demethylation in mammals.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol in the elution buffer.
Molecular Mass	80 kDa
Purity	>80% purity
Applications	Active DNA demethylase can be used for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing. Best when used within six months from the date of receipt.

GENE INFORMATION
Gene Name

TET1 tet methylcytosine dioxygenase 1 [Homo sapiens (human)]

Official Symbol

TET1

Synonyms

TET1; tet methylcytosine dioxygenase 1; LCX; CXXC6; bA119F7.1; methylcytosine dioxygenase TET1; CXXC finger 6; tet oncogene 1; CXXC zinc finger 6; TET1 splice variant VP_DE4; ten-eleven translocation-1; TET1 splice variant VP_DE456; CXXC-type zinc finger protein 6; ten-eleven translocation 1 gene protein; leukemia-associated protein with a CXXC domain; NP_085128.2; EC 1.14.11.n2

Gene ID

80312

mRNA Refseq

NM_030625

Protein Refseq

NP_085128

MIM

607790

UniProt ID

Q8NFU7

Chromosome Location

10q21

Pathway

Epigenetic regulation of gene expression; Gene Expression; TET1,2,3 and TDG demethylate DNA

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Function

iron ion binding; methylcytosine dioxygenase activity; structure-specific DNA binding

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