

TET1 recombinant protein

TET1 recombinant protein

CATALOG # AAA72891	HOST Sf9 insect cells	APPLICATIONS Western Blot
------------------------------	---------------------------------	-------------------------------------

PRODUCT SYNONYMS

TET1; TET1 recombinant protein; bA119F7.1; CXXC6; LCX

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>90%
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Length	9601
Applicable Applications for TET1 recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant human TET1 (1598-end) was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. 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. Ships with Dry Ice.

IMAGES



SDS-PAGE

The purity of TET1 was determined to be >90E% by densitometry. Approx. MW 110 kDa

ADDITIONAL INFORMATION

Related Product Information for TET1 recombinant protein	Recombinant human TET1 (1598-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: 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 (1). 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 (2).
Product Categories/Family for TET1 recombinant protein	Methylcytosine Dioxygenase Proteins; Signaling Proteins - Methylcytosine Dioxygenase Proteins
References	1. Ito, S. et.al: Role of Tet proteins in 5mC to 5hmC conversion, ES-cell self-renewal and inner cell mass specification. Nature 466: 1129-1133, 2010. 2. Wu, H. et.al: Dual functions of Tet1 in transcriptional regulation in mouse embryonic stem cells. Nature 473: 389-393, 2011.

NCBI AND UNIPROT INFORMATION

NCBI GI #	156139121
NCBI GeneID	80312
NCBI Accession #	NP_085128.2
NCBI GenBank Nucleotide #	NM_030625
UniProt Accession #	Q8NFU7; Q5VUP7; Q7Z6B6; Q8TCR1; Q9C0I7
Molecular Weight	~110 kDa
NCBI Official Full Name	Homo sapiens tet methylcytosine dioxygenase 1 (TET1), mRNA
NCBI Official Synonym Full Names	tet methylcytosine dioxygenase 1
NCBI Official Symbol	TET1
NCBI Official Synonym Symbols	LCX; CXXC6; bA119F7.1
NCBI Protein Information	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
UniProt Protein Name	Methylcytosine dioxygenase TET1
UniProt Gene Name	TET1
UniProt Synonym Gene Names	CXXC6; KIAA1676; LCX
UniProt Entry Name	TET1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.