

Tet3 recombinant protein

Recombinant Tet3 (824-1795) protein

CATALOG # AAA59672	HOST Baculovirus
------------------------------	----------------------------

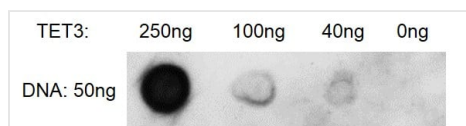
PRODUCT SYNONYMS

Tet3; Recombinant Tet3 (824-1795) protein; hCG_40738; Tet3 recombinant protein

PRODUCT SPECIFICATIONS

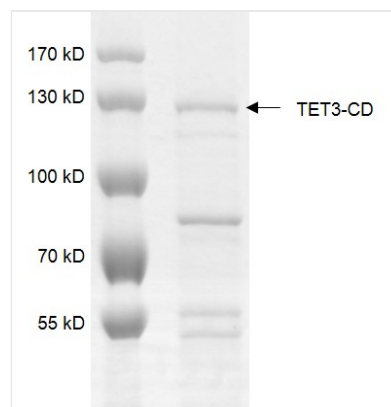
Host	Baculovirus
Form/Format	Recombinant TET3 (824-1795) protein is supplied in 25mM HEPESNaOH pH7.5, 300mM NaCl, 10% Glycerol, 0.04% Triton X-100, 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



DB (Dot Blot)

Dot Blot analysis for recombinant TET3 (824-1795) protein. 250 ng of 30 base oligonucleotide (contains a 5mCpG) was incubated with 0 ug, 312.5 and 625 ng TET3 protein, respectively, in buffer containing 50 mM HEPES pH 7.9, 50 ?M Fe(NH4)2(SO4)2, 1 mM ascorbate, 100 uM alpha-ketoglutarate, 200 uM ATP, 1 mM TCEP at room temperature for 1 hour. Sample was concentrated to 5 ul, then 1 ul sample was spotted onto positively charged nylon membrane. 5-hmC antibody was used to detect the generation of products.



SDS-PAGE

Recombinant TET3 (824-1795) protein gel. Recombinant TET3 (824-1795) protein was run on an 8% SDS-PAGE gel and stained with Coomassie blue.

ADDITIONAL INFORMATION

Related Product Information for Tet3 recombinant protein	Short Description: Recombinant TET3 (824-1795) protein that includes amino acids 824-1795 of human TET3 protein (accession number NP_001274420.1) was expressed in Sf9 cells and contains an N-terminal 6xHis-tag and DYKDDDDK-Tag with a molecular weight of 111.3 kDa. The recombinant protein is >30% pure by SDS-PAGE. It is suitable for use in cytosine oxygenase assays, enzyme kinetics, inhibitor screening, and selectivity profiling. Background: TET (Ten Eleven Translocation) family proteins are cytosine oxygenases that catalyze the conversion of 5-methylcytosine (5mC) into 5-hydroxymethylcytosine (5hmC). 5hmC can be further oxidized into 5-formylcytosine (5fC) and 5-carboxylcytosine (5caC) by TET proteins. Methylation at the C5 position of cytosine is an epigenetic modification of the mammalian genome that plays an important role in transcriptional regulation. TET proteins are responsible for initiating the enzymatic deamination process leading to cytosine demethylation. TET3 plays an important role in DNA methylation reprogramming processes in the mammalian zygote. TET3 may also contribute to somatic cell nuclear reprogramming during animal cloning. Both of CXXC domain and catalytic domain are important for TET3 regulating key genes of Xenopus eye and neural development.
Product Categories/Family for Tet3 recombinant protein	Recombinant Proteins; Cytosine Oxygenase (TET)

NCBI AND UNIPROT INFORMATION

NCBI GI #	566559863
NCBI GeneID	200424
NCBI Accession #	NP_001274420.1
NCBI GenBank Nucleotide #	NM_001287491.1
UniProt Accession #	O43151; Q86Z24; Q8TBM9; A6NEI3; K9JJH7
Molecular Weight	193,705 Da
NCBI Official Full Name	methylcytosine dioxygenase TET3
NCBI Official Synonym Full Names	tet methylcytosine dioxygenase 3
NCBI Official Symbol	TET3
NCBI Official Synonym Symbols	hCG_40738
NCBI Protein Information	methylcytosine dioxygenase TET3
UniProt Protein Name	Methylcytosine dioxygenase TET3
UniProt Gene Name	TET3
UniProt Synonym Gene Names	KIAA0401
UniProt Entry Name	TET3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/tet3-recombinant-protein-baculovirus/59672>