

**Datasheet for 009-001-U13S****TET1 protein-GST fusion****Overview**

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|----------------------|------------------------------------------------------------|
| <b>Description:</b>  | TET1 recombinant protein-GST fusion protein - 009-001-U13S |
| <b>Item No.:</b>     | 009-001-U13S                                               |
| <b>Size:</b>         | 20 µg                                                      |
| <b>Origin:</b>       | Human                                                      |
| <b>Expressed in:</b> | Sf9 cells                                                  |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Background:</b>        | 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). TET1 Protein is ideal for investigators involved in Signaling Proteins, Methylcytosine Dioxygenase Proteins, Cancer, and Cell Cycle research. |
| <b>Synonyms:</b>          | bA119F7.1, CXXC6, LCX, Methylcytosine dioxygenase TET1, CXXC-type zinc finger protein 6, Leukemia-associated protein with a CXXC domain, Ten-eleven translocation 1 gene protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                            |                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | TET1                                                                                                                                                                                                   |
| <b>Purity/Specificity:</b> | Recombinant human TET1 (1598-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NM_030625</a></li></ul>                                                                                                                     |

## Application Details

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| <b>Application Note:</b> | TET1 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. TET1 Protein is suitable for use in Western Blot. Expect a band approximately ~110kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                               |
| <b>WB:</b>               | User Optimized                                                                                                                                                                                                                                                                                                                |

## Formulation

|                        |                           |
|------------------------|---------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered) |
| <b>Concentration:</b>  | 0.1 µg/µL                 |
| <b>Buffer:</b>         | See application note.     |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                 |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                   |

## Disclaimer

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