

## Recombinant Human Testis Derived Transcript (3 LIM Domains), T7-tagged

Cat. No. TES-2994H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human TES protein, fused with a T7-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques, 47933Da (421 aa).

**Species** Human

**Source** E.coli

**Description** Testin also known as TESS is a protein that in humans is encoded by the TES gene located on chromosome 7. TES is a 47 kDa protein composed of 421 amino acids found at focal adhesions and is thought to have a role in regulation of cell motility. In addition to this, TES functions as a tumour suppressor. The TES gene is located within a fragile region of chromosome 7, and the promoter elements of the TES gene have been shown to be susceptible to methylation - this prevents the expression of the TES protein. TES came to greater prominence towards the end of 2007 as a potential mechanism for its tumour suppressor function was published.

**Sequences of amino acids**

MDLENKVKKM GLGHEQGFGA PCLKCKEKCE GFELHFWRKI CRNCKCGQEE  
 HDVLLSNEED RKGKLFEDT KYTTLIAKLNK SDGIPMYKRN VMILTNPVAA  
 KKNVSINTVT YEWAPPVQNN ALARQYMQML PKEKQPVAGS EGAQYRKKQL  
 AKQLPAHDQD PSKCHELSPR EVKEMEQQVK KYKSEALGVG DVKLPCEMDA  
 QGPKQMNIPI GDRSTPAAVG AMEDKSAEHK RTQYSCYCCK LSMKEGDPAI  
 YAERAGYDKL WHPACFVCST CHELLVDMII FWKNEKLYCG RHYCDSEKPR

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CAGCDELIFS NEYTQAENQN WHLKHFCFCFD CDSILAGEIY VMVNDKPVCK  
 PCYVKNHAVV CQGCHNAIDP EVQQRVTYNNF SWHASTECFL CSCCSKCLIG  
 QKFMPVEGMV FCSVECKKRM S

**Formulation** 10 mM Tris. pH 8.0. 0.1% Triton X-100. 0.002% NaN<sub>3</sub>. 10mM DTT

**Purity** 95% by SDS - PAGE

**Applications** MS. SDS

## GENE INFORMATION

**Gene Name** [TES testis derived transcript \(3 LIM domain\) \[Homo sapiens\]](#)

**Synonyms** TES; MGC1146; DKFZp586B2022; TESS; testis derived transcript (3 LIM domains); TESS-2; TESTIN; DKFZP586B2022

**Gene ID** [26136](#)

**mRNA Refseq** [NM\\_015641](#)

**Protein Refseq** [NP\\_056456](#)

**MIM** [606085](#)

**UniProt ID** [Q9UGI8](#)

**Chromosome Location** 7q31.2

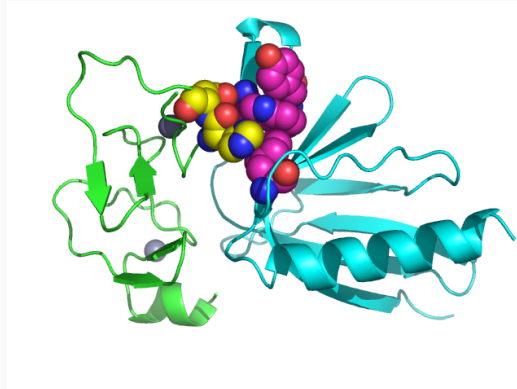
**Function** Metal ion binding; zinc ion binding

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The 3rd LIM domain of TEM (green) bound to the EVH1 domain of Mena (blue). The EVH1 FPPPP binding site (magenta) is blocked by some residues from TES (yellow). Available structures:2iyb



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