

## TEV Protease Protein, Tobacco etch virus (S2256N, C-His)

Cat. No.:	HY-P79151A
Synonyms:	Genome polyprotein; Tobacco Etch Virus Protease
Species:	Virus
Source:	E. coli
Accession:	NP_062908 (E2039-Q2279)
Gene ID:	1502321
Molecular Weight:	approximately 34 kDa

### PROPERTIES

AA Sequence	<div> <div>E S L F K G P R D Y</div> <div>I T N K H L F R R N</div> <div>M I I I R M P K D F</div> <div>S S M V S D T S C T</div> <div>F I V G I H S A S N</div> <div>W R L N A D S V L W</div> <div>Q</div> </div> <div> <div>N P I S S T I C H L</div> <div>N G T L L V Q S L H</div> <div>P P F P Q K L K F R</div> <div>F P S S D G I F W K</div> <div>F T N T N N Y F T S</div> <div>G G H K V F M N K P</div> </div> <div> <div>T N E S D G H T T S</div> <div>G V F K V K N T T T</div> <div>E P Q R E E R I C L</div> <div>H W I Q T K D G Q C</div> <div>V P K N F M E L L T</div> <div>E E P F Q P V K E A</div> </div> <div> <div>L Y G I G F G P F I</div> <div>L Q Q H L I D G R D</div> <div>V T T N F Q T K S M</div> <div>G S P L V S T R D G</div> <div>N Q E A Q Q W V S G</div> <div>T Q L M N E L V Y S</div> </div>
Biological Activity	Measured by its ability to cleave a fusion protein containing the recognition sequence Glu-Asn-Leu-Tyr-Phe-Gln, with the cleavage point after Gln. TEV Protease cleaves ≥50% of the control substrate.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	TEV Protease plays a crucial role in aphid transmission and exhibits proteolytic activity, specifically cleaving a Gly-Gly dipeptide at its own C-terminus. Beyond its proteolytic function, TEV Protease interacts with virions and aphid stylets,
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contributing to its significance in the aphid transmission process. Additionally, TEV Protease acts as a suppressor of RNA-mediated gene silencing, a plant viral defense mechanism, thus modulating the accumulation of viral RNAs. Its potential RNA-binding activity and helicase function suggest its involvement in replication processes. The multifaceted roles of TEV Protease underscore its importance in various aspects of viral infection and host-pathogen interactions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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