

**Product Data Sheet**

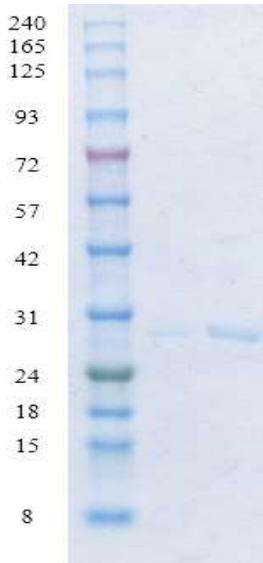
□ Cat# TSWV15-R-20

Recombinant Tomato Spotted Wilt Virus Nucleoprotein

Size: 20 ug

Tomato Spotted Wilt Virus or TSWV is transmitted by thrips and causes serious losses in economically important crops and is considered one of the most economically devastating plant viruses in the world. There is estimated to be over one thousand different hosts for TSWV. The symptoms of TSWV vary from host to host. Common symptoms include stunting, ringspots, and necrosis of leaves. Diagnosis is typically done through ELISA or lateral flow immunoassay which use antibodies generated against the Nucleoprotein or the whole virus purified from infected plants.

**Source and Forms of Protein**



Tomato Spotted Wilt Virus Nucleoprotein (Uniprot: P26000) was expressed in *E. coli*. It contains a c-terminal His-tag. The Nucleoprotein is expressed as a full-length protein. It migrates as a band of approximately 29 kDa in reducing/denaturing conditions. Purified Coat Protein is supplied in a buffer containing Tris buffered saline with 0.25M Imidazole

Lane 1: 0.2 ug TSWV  
Lane 2: 0.5 ug TSWV

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4°C.

**Long-term:** at -20°C or below in suitable aliquots after reconstitution. Avoid multiple freeze/thaw cycles

**Stability:** 6-12 months at -20°C or below.

**Recommended Usages:** This protein is suitable for uses such as an ELISA coating antigen or standard, use as an immunogen, or as a Western Blot positive control.

**Western Blotting:** Load ~5-20 ng/lane for good visibility with appropriate antibodies.

**ELISA:** Assay dependent concentration

**Protein homology:** Tomato spotted wilt virus exhibits <80% homology across various TSWV strains. 77% with Chrysanthemum stem necrosis virus, 56% Impatiens Necrotic spot Virus, 37% Bean necrotic mosaic virus, 34% Polygonum ringspot virus, and 33% Peanut bud necrosis virus

This product is for in vitro research use only.

**Related Material available for ADI**

Catalog#	Description
	ELISA Kits and antibodies for Tobacco Mosaic virus, Cucumber Mosaic Virus, Potato Virus X, Potato Virus Y, and Impatiens Necrotic Spot Virus are available from ADI

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