

Product Data Sheet

□ Cat # RP-1431 Recombinant (E.Coli) Tick-Borne Encephalitis Virus NS3 Size: □ 100 ug

TBE is caused by tick-borne encephalitis virus (TBEV), a member of the family Flaviviridae. A closely related virus in Far Eastern Eurasia, Russian spring-summer encephalitis virus (RSSEV). The family Flaviviridae includes other tick-borne viruses are closely related to TBEV and RSSEV, such as Omsk hemorrhagic fever virus & Kyasanur Forest virus. Louping ill virus is also a member of this family.

It causes disease primarily in sheep and has been reported as the cause of a TBE-like illness in laboratory workers and persons with contact to sick sheep (e.g., veterinarians, butchers). In the USA and Russia, another tick-borne flavivirus, Powassan virus, is responsible of encephalitis in human.

There is no specific drug therapy for TBE. Meningitis, encephalitis, or meningoencephalitis requires hospitalization and supportive care based on syndrome severity. Anti-inflammatory drugs, such as corticosteroids, may be considered under specific circumstances for symptomatic relief. Intubation and ventilator support may be necessary.

Like other tick-borne infectious diseases, TBEV infection can be prevented by using insect repellents and protective clothing to prevent tick bites. A vaccine is available in some disease endemic areas (though not currently in the United States); however, adverse vaccine-reactions in children limit the utility of certain vaccines.

Source: Tick-borne Encephalitis Virus NS3 recombinant protein is produced in E.Coli and is purified by proprietary chromatographic techniques. Encephalitis protein is >95% pure as determined by 10% PAGE (coomassie staining) and is supplied in buffer containing 20mM MES pH 6.5, 8M urea, 200mM NaCl and 0.05% Tween-20.

Applications and Suggested Dilutions: Encephalitis antigen is suitable for ELISA and Western blots, excellent antigen for detection of Tick-borne encephalitis virus with minimal specificity problems.

Storage and Stability: Encephalitis protein although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution the protein should be stored at 4°C between 2-7 days and for future use below -18°C. If supplied in powder, then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage. **Please prevent freeze-thaw cycles.**

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal.

*This product is for in vitro research use only.

Related material available from ADI

Catalog# Prod Description

- RP-1426 Recombinant (E.Coli) Tick-Borne Encephalitis Virus gE
- RP-1427 Recombinant (E.Coli) Tick-Borne Encephalitis Virus NE/gE
- RP-1428 Recombinant (E.Coli) Tick-Borne Encephalitis Virus gE middle (50-250)
- RP-1429 Recombinant (E.Coli) Tick-Borne Encephalitis Virus gE C-end (296-414)
- RP-1430 Recombinant (E.Coli) Tick-Borne Encephalitis Virus Core
- RP-1431 Recombinant (E.Coli) Tick-Borne Encephalitis Virus NS3
- RP-1432 Recombinant (E.Coli) Tick-Borne Encephalitis Virus preM
- RP-1433 Recombinant Tick-Borne Encephalitis Virus CE/gE
- RP-1434 Recombinant Tick-Borne Encephalitis Virus NE/GE/CE/gE

RP-1431-TBEV-NS3 160427SV

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