

Omsk hemorrhagic fever virus E protein ectodomain (OHFV-E)

Catalog: NCP0151

Tag: His-tag

Source: E. coli Expression

BackGround:

Omsk hemorrhagic fever virus (OHFV) is a tick-borne flavivirus classified as a biosafety level-4 (BSL4) pathogen. Studies of OHFV are restricted to be conducted within BSL4 laboratories. Currently, no commercial vaccines or antiviral drugs are available against OHFV infection. In this study, we recovered a replication-deficient OHFV with an NS1 deletion (OHFV- Δ NS1) and reporter virus replacing NS1 with the Gaussia luciferase (Gluc) (OHFV- Δ NS1-Gluc). Both the defective OHFV- Δ NS1 and OHFV- Δ NS1-Gluc virus could only replicate efficiently in the BHK21 cell line expressing NS1 (BHK21NS1) but not in naïve BHK21 cells. The Gluc reporter gene of OHFV- Δ NS1-Gluc virus was maintained stably after serial passaging of BHK21NS1 cells and was used to surrogate the replication of OHFV. Using NITD008, OHFV- Δ NS1-Gluc virus was validated for antiviral screening, and high-throughput screening parameters were optimized in a 96-well plate format with a calculated Z' value above 0.5. The OHFV- Δ NS1-Gluc reporter virus is a powerful tool for antiviral screening as well as viral replication and pathogenesis studies in BSL2 laboratories.

Product:

Inclusion body;0.5mol Urea,PH=8

Molecular Weight:

288bp;11kDa

Entrez-Gene/ Swiss-Prot:

NC_005062.1

Purification&Purity:

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Applications:

Reseach

Storage&Stability:

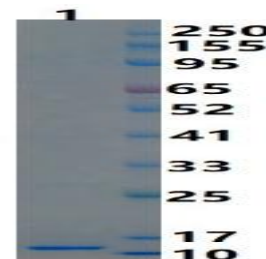
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Information:

Carrier:pET30a-OHFV-E-His(C-term)

Virus:Omsk hemorrhagic fever virus, complete genome

DATA:



Omsk hemorrhagic fever virus E protein ectodomain, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

Note:

For research use only, not for use in diagnostic procedure.

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