

## SMU-V18

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	SMU-V18 is a vesicular stomatitis virus (VSV) inhibitor with an EC50 of 6.2 $\mu$ M. It suppresses VSV-GFP fluorescence intensity, viral mRNA/protein expression, and progeny virus replication. SMU-V18 interferes with the early stages of viral infection and is effective against wild-type VSV (VSV-WT). Additionally, it suppresses VSV-GFP in mouse tissues and extends survival in mice. SMU-V18 is useful for studying vesicular stomatitis virus (VSV) infections.
In vitro	SMU-V18 significantly inhibits VSV-GFP replication in HeLa cells at concentrations of 1.2-40 $\mu$ M over 24 hours, with an EC50 of 6.2 $\mu$ M, reducing GFP fluorescence intensity, VSV-P mRNA, and GFP expression. It also effectively suppresses the release of progeny VSV-GFP at 5-20 $\mu$ M during 24-hour incubation. In Vero cells, SMU-V18 at 5-20 $\mu$ M over 6-24 hours markedly inhibits VSV-WT replication, decreases VSV-WT plaque formation, and lowers viral mRNA levels across different MOI and incubation durations. Real Time qPCR analysis shows reduced VSV-P mRNA levels after treatment.
In vivo	SMU-V18 (25-50 mg/kg, intraperitoneal injection, once daily for 5 days) significantly reduces VSV-GFP replication in mouse tissues.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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