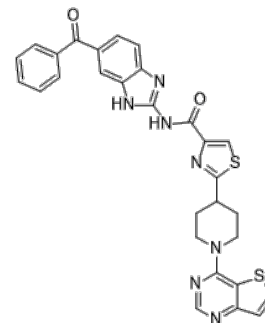


Product Name : SC75741
Cat. No. : PC-28152
CAS No. : 913822-46-5
Molecular Formula : C₂₉H₂₃N₇O₂S₂
Molecular Weight : 565.67
Target : NF-κB
Solubility : 10 mM in DMSO



Biological Activity

SC75741 is a specific small molecule **NF-κB** inhibitor, inhibits DNA binding of NF-κB subunit **p65** with IC₅₀ of 200 nM, efficiently blocks influenza virus propagation, also promotes the elimination of TDP25 and TDP43-related aggregates by inhibiting **c-Abl** (IC₅₀=263 nM).

SC75741 reduces expression of cytokines, chemokines, and pro-apoptotic factors, subsequent inhibition of caspase activation and block of caspase-mediated nuclear export of viral ribonucleoproteins.

SC75741 reduces viral replication and H5N1-induced IL-6 and IP-10 expression in the lung of infected mice.

SC75741 suppresses H5N1 virus-induced overproduction of cytokines and chemokines.

SC75741 significantly protects mice against infection with highly pathogenic avian influenza A viruses of the H5N1 and H7N7 subtypes.

SC75741 reduces viral RNA synthesis of Severe fever with thrombocytopenia syndrome virus (SFTSV) and Heartland virus (HRTV).

SC75741 promotes the degradation of TDP-43-related protein aggregation and reduces the inflammation-induced aggregation by inhibiting NF-κB pathway.

SC75741 degrades already aggregated proteins by inhibiting c-Abl mediated autophagy-lysosomal pathway.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!