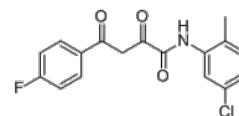


Product Name : SEC inhibitor KL-2
Cat. No. : PC-35725
CAS No. : 900308-51-2
Molecular Formula : C₁₇H₁₃ClFNO₃
Molecular Weight : 333.743
Target : DNA/RNA Synthesis
Solubility : 10 mM in DMSO



Biological Activity

SEC inhibitor KL-2 is a peptidomimetic inhibitor of **super elongation complex (SEC)** and transcription elongation by Pol II, disrupts cyclin T1-AFF4 interaction (K_i=1.50 μM) within SEC.

SEC inhibitor KL-2 disrupts the interaction between the SEC scaffolding protein AFF4 and P-TEFb, resulting in impaired release of Pol II from promoter-proximal pause sites and a reduced average rate of processive transcription elongation.

SEC inhibitor KL-2 attenuates the heat-shock response from *Drosophila* to human, reduces protein levels of SEC components AFF1 and AFF4, but not CDK9 or CCNT1 in HEK293T cells.

SEC inhibitor KL-2 downregulates MYC and MYC-dependent transcriptional programs in mammalian cells and delays tumor progression in mouse xenograft models of MYC-driven cancer.

References

Liang K, et al. *Cell*. 2018 Oct 18;175(3):766-779.e17.

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

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