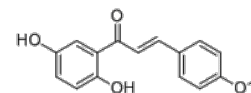


Product Name : SPI-21
Cat. No. : PC-73083
CAS No. : 204703-71-9
Molecular Formula : C₁₆H₁₄O₄
Molecular Weight : 270.284
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

SPI-21 (Spt5-Pol II inhibitor 21) is a small-molecule inhibitor of **Spt5-Pol II** with IC₅₀ of 25.2 μM.

Short-term SPI-21 treatment to HeLa cells caused a transcription upregulation (≥2-fold) of 1,371 genes, among them A20 (TNFAIP3), IL-6, IL-8 (CXCL8), and CCL20 (analyzed above), while CXCL2, IEX1 (IER3), and JUNB were unchanged.

SPI-21 precisely mimics the effect of Spt5 depletion on basal and activated NF-κB target genes and on the expanded repeat Htt gene.

Spt5 is a conserved and essential transcription elongation factor that promotes promoter-proximal pausing, promoter escape, elongation, and mRNA processing.

SPI-21 is a useful chemical probe to elucidate the function of Spt5.

References

Bahat A, et al. *Mol Cell*. 2019 Nov 21;76(4):617-631.e4.

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

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