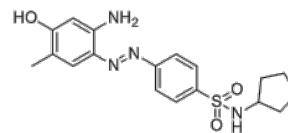


**Product Name** : ZL0454  
**Cat. No.** : PC-35097  
**CAS No.** : 2229042-77-5  
**Molecular Formula** : C<sub>18</sub>H<sub>22</sub>N<sub>4</sub>O<sub>3</sub>S  
**Molecular Weight** : 374.459  
**Target** : Bromodomain  
**Solubility** : 10 mM in DMSO



### Biological Activity

ZL0454 is a potent, highly selective small-molecule **BRD4** inhibitor with IC<sub>50</sub> of 49 and 32 nM for BRD4-BD1 and BRD4-BD2, respectively.

ZL0454 displays selectivity over BRD2, BRD3, and BRDT( BRD2-BD1 and BRD2-BD2, IC<sub>50</sub>=772 and 1836 nM).

ZL0454 disrupts the BRD4 complex with Pol II and histones, inhibits poly(I:C)-induced expression of innate immune genes IL6 and CIG5 in human small airway epithelial cells (hSAECs) (IC<sub>50</sub>=0.62 and 0.57 μM).

ZL0454 blocks Poly(I:C)-induced inflammation and neutrophilia in vivo.

### References

Tian B, et al. *Cell Rep.* 2018 Apr 24;23(4):1138-1151.

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

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