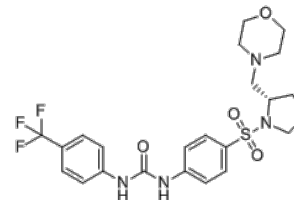


**Product Name** : ZL0590  
**Cat. No.** : PC-21739  
**CAS No.** : 2230496-99-6  
**Molecular Formula** : C<sub>23</sub>H<sub>27</sub>F<sub>3</sub>N<sub>4</sub>O<sub>4</sub>S  
**Molecular Weight** : 512.55  
**Target** : Bromodomain  
**Solubility** : 10 mM in DMSO



## Biological Activity

ZL0590 is a potent, orally active, BRD4 BD1-selective inhibitor with IC<sub>50</sub> of 90 nM for human BRD4 BD1.

ZL0590 inhibits Poly(I:C)-induced expression of inflammatory genes CIG5 and IL-6 in hSAECs with IC<sub>50</sub> of 0.2 and 0.37 μM, respectively.

ZL0590 is 10-fold more selective over BRD4 BD2, BRD2 BD1, and BRD2 BD2, highly selective over other BET members (e.g., BRD3 and BRDT) and non-BET protein (e.g., CBP).

ZL0590 binds selectively to WT BRD4-BD1 but not WT BRD4-BD2 nor E151-mutated BRD4-BD1.

ZL0590 (10 mg/kg, po) blocked poly(I:C)-induced acute airway inflammation in mice.

## References

Liu Z, et al. J Med Chem. 2022 Feb 10;65(3):2388-2408.

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

E-mail: tech@probechem.com