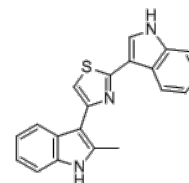


**Product Name** : pNPS14  
**Cat. No.** : PC-21993  
**CAS No.** : 429648-04-4  
**Molecular Formula** : C<sub>20</sub>H<sub>15</sub>N<sub>3</sub>S  
**Molecular Weight** : 329.42  
**Target** : Bromodomain  
**Solubility** : 10 mM in DMSO



## Biological Activity

pNPS14 is a small molecule inhibitor of phospho-BRD4 (pBRD4) with IC<sub>50</sub> of 3.39  $\mu$ M, binds to phospho-NPS (pNPS) and disrupts HPV E2-BRD4 interaction, effectively inhibits HPV ecDNA replication.

pNPS14 inhibits HPV genome amplification and ori replication but not genome maintenance.

pNPS14 binds to phosphorylation-dependent interaction domain (PDID) of BRD4 with K<sub>d</sub> of 12.9  $\mu$ M.

pNPS14 shows selectivity toward inhibition of HPV but not host DNA replication.

pNPS14 disrupts BRD4 association with 53BP1 and BARD1 impairs differentiation-dependent HPV genome amplification.

pNPS14 selectively disrupts 53BP1 and BARD1 binding to HPV ori without reducing corresponding BRD4-L/S occupancy in differentiated W12E cells.

## References

Wu SY, et al. Mol Cell. 2024 Jan 18;84(2):202-220.e15.

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

E-mail: tech@probechem.com