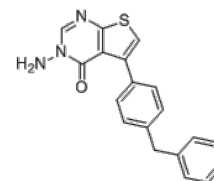


**Product Name** : Barbadin  
**Cat. No.** : PC-61188  
**CAS No.** : 356568-70-2  
**Molecular Formula** : C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>OS  
**Molecular Weight** : 333.409  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

Barbadin is a small molecule that selectively inhibits the **β-arrestin/β2-adaptin** interaction (IC<sub>50</sub>=19.1/15.6 μM for β-arrestin1/2) without effect on the formation of receptor/β-arrestin complexes.

Barbadin selectively inhibits the β-arrestin/AP2 interaction.

Barbadin blocks agonist-promoted endocytosis of the prototypical GPCR β2AR, V2R and AT1R, but does not affect β-arrestin-independent (transferrin) or AP2-independent (endothelin-A) receptor internalization.

Barbadin fully blocks V2R-stimulated ERK1/2 activation and blunts cAMP accumulation promoted by both V2R and β2AR.

## References

Beautrait A, et al. *Nat Commun.* 2017 Apr 18;8:15054.

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

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