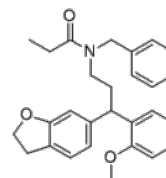


**Product Name** : AGX51  
**Cat. No.** : PC-72578  
**CAS No.** : 330834-54-3  
**Molecular Formula** : C<sub>28</sub>H<sub>31</sub>NO<sub>3</sub>  
**Molecular Weight** : 429.56  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

AGX51 is a small-molecule antagonist of **Id helix-loop-helix (HLH) proteins (Id1-4)**, inhibits the Id1-E47 interaction, leading to ubiquitin-mediated degradation of Ids.

AGX51 induces ubiquitin-mediated degradation of Ids, cell growth arrest, and reduced viability.

AGX51 is well-tolerated in mice and phenocopies the genetic loss of Id expression in AMD and ROP models by inhibiting retinal neovascularization.

AGX51+aflibercept combination treatment worked better than aflibercept alone.

AGX51 as an anti-neovascular agent is likely due to its effects on blocking cell proliferation and vascular network disruption.

### References

Wojnarowicz PM, et al. **Cell Rep.** 2019 Oct 1;29(1):62-75.e7.

Wojnarowicz PM, et al. **NPJ Breast Cancer.** 2021 May 24;7(1):58.

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

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