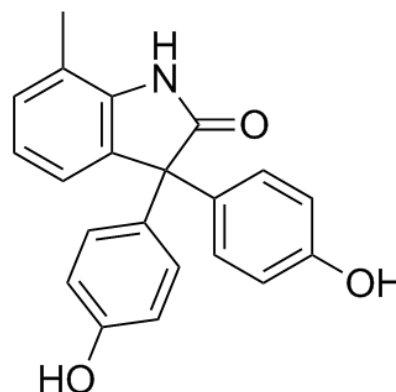


**Product Name** : BHPI  
**Cat. No.** : PC-43234  
**CAS No.** : 56632-39-4  
**Molecular Formula** : C<sub>21</sub>H<sub>17</sub>NO<sub>3</sub>  
**Molecular Weight** : 331.3646  
**Target** : Estrogen Receptor/ERR  
**Solubility** : DMSO: ≥150 mg/mL



### Biological Activity

BHPI is a potent, noncompetitive small molecule **ERα** inhibitor (biomodulator) that selectively blocks proliferation of drug-resistant ERα-positive breast and ovarian cancer cells.

BHPI distorts this normal action of E2-ERα and induces a massive and sustained ERα-dependent activation of the unfolded protein response (UPR), persistent inhibition of protein synthesis, converting UPR activation from cytoprotective to cytotoxic.

BHPI completely blocked proliferation of ERα+ cancer cells at 100-1000 nM, induces tumor regression in mouse xenograft of MCF-7 cells.

### References

Andruska ND, et al. *Proc Natl Acad Sci U S A*. 2015 Apr 14;112(15):4737-42.

Zheng X, et al. *Oncotarget*. 2016 Jul 24;9(19):14741-14753.

Mao C, et al. *Sci Rep*. 2016 Oct 7;6:34753.

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

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