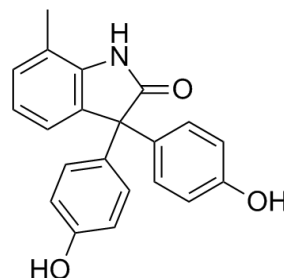


<b>Product Name</b>	: BHPI
<b>Synonyms</b>	: BHPI;
<b>Cat No.</b>	: M15059
<b>CAS Number</b>	: 56632-39-4
<b>Molecular Formula</b>	: C <sub>21</sub> H <sub>17</sub> NO <sub>3</sub>
<b>Formula Weight</b>	: 331.36
<b>Chemical Name</b>	: 2H-Indol-2-one, 1,3-dihydro-3,3-bis(4-hydroxyphenyl)-7-methyl-



**Description** : BHPI is a potent, noncompetitive small molecule ER $\alpha$  inhibitor (biomodulator) that selectively blocks proliferation of drug-resistant ER $\alpha$ -positive breast and ovarian cancer cells; distorts this normal action of E<sub>2</sub>-ER $\alpha$  and induces a massive and sustained ER $\alpha$ -dependent activation of the unfolded protein response (UPR), persistent inhibition of protein synthesis, converting UPR activation from cytoprotective to cytotoxic; completely blocked proliferation of ER $\alpha$ + cancer cells at 100-1000 nM, induces tumor regression in mouse xenograft of MCF-7 cells.

**Pathway** : Endocrinology/Hormones

**Target** : Estrogen Receptor/ERR

**Receptor** : Estrogen Receptor/ERR

**Solubility** : DMSO:  $\geq 150$  mg/mL

**SMILES** : O=C1NC2=C(C=CC=C2C)C1(C3=CC=C(O)C=C3)C4=CC=C(O)C=C4

**Storage** : (-20°C)

**Stability** :  $\geq 2$  years

**Reference** :

1. Andruska ND, et al. Proc Natl Acad Sci U S A. 2015 Apr 14; 112(15):4737-42. | 2. Zheng X, et al. Oncotarget. 2016 Jul 24; 9(19):14741-14753. | 3. Mao C, et al. Sci Rep. 2016 Oct 7; 6:34753.