PRODUCT INFORMATION



BHPI

Item No. 17750

| CAS Registry No.: | 56632-39-4 | HQ |
|-------------------|--|--|
| Formal Name: | 1,3-dihydro-3,3 <i>-bis</i> (4- | ОН |
| | hydroxyphenyl)-7-methyl-2H- | |
| | indol-2-one | |
| MF: | C ₂₁ H ₁₇ NO ₃ | |
| FW: | 331.4 | \sim |
| Purity: | ≥95% | |
| Supplied as: | A crystalline solid | N N |
| Storage: | -20°C | Ϋ́ι |
| Stability: | ≥4 years | |
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BHPI is supplied as a crystalline solid. A stock solution may be made by dissolving the BHPI in the solvent of choice, which should be purged with an inert gas. BHPI is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BHPI in these solvents is approximately 14, 11, and 5 mg/ml, respectively.

BHPI is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BHPI should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. BHPI has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BHPI is an antagonist of estrogen receptor α (ER α) that blocks 17 β -estradiol-induced proliferation of drug-resistant breast, endometrial, and ovarian cancer cell lines at concentrations ranging from 10 to 1,000 nM.¹ It is effective in vivo, driving tumor regression in mice bearing MCF-7 xenografts at a dose of 15 mg/kg daily.¹ BHPI specifically inhibits ER α -dependent gene expression and protein synthesis by activating the unfolded protein response in cells.¹

Reference

1. Andruska, N.D., Zheng, X., Yang, X., et al. Estrogen receptor α inhibitor activates the unfolded protein response, blocks protein synthesis, and induces tumor regression. Proc. Natl. Acad. Sci. USA 112(15), 4737-4742 (2015).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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