



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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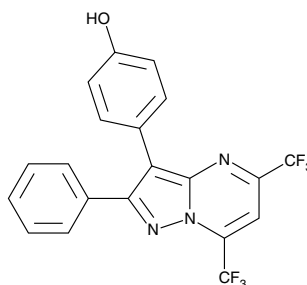
# Product Information



## PHTPP

Item No. 16025

**CAS Registry No.:** 805239-56-9  
**Formal Name:** 4-[2-phenyl-5,7-bis(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-3-yl]-phenol  
**MF:** C<sub>20</sub>H<sub>11</sub>F<sub>6</sub>N<sub>3</sub>O  
**FW:** 423.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 237, 287, 362 nm



### Laboratory Procedures

For long term storage, we suggest that PHTPP be stored as supplied at -20°C. It should be stable for at least two years.

PHTPP is supplied as a crystalline solid. A stock solution may be made by dissolving the PHTPP in the solvent of choice. PHTPP is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of PHTPP in ethanol is approximately 30 mg/ml and approximately 50 mg/ml in DMSO and DMF.

PHTPP is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PHTPP should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PHTPP has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

PHTPP is a pyrazolo[1,5- $\alpha$ ]pyrimidine-based ligand that acts as a full antagonist of estrogen ER $\beta$  receptors with 36-fold selectivity over ER $\alpha$ .<sup>1</sup> It exhibits no significant agonism on ER $\alpha$  or ER $\beta$ .<sup>1</sup> This compound has been used to selectively target ER $\beta$  in the study of the opposing effects of hormone therapy on tumors expressing either ER subtype. At 100 pM, PHTPP has been found to enhance SKOV3 and OV2008 ovarian cancer cell growth in *in vitro* assays.<sup>2</sup>

### References

1. Compton, D.R., Sheng, S., Carlson, K.E., *et al.* Pyrazolo[1,5-a]pyrimidines: Estrogen receptor ligands possessing estrogen receptor  $\beta$  antagonist activity. *J. Med. Chem.* **47**(24), 5872-5893 (2004).
2. Chan, K.K.L., Leung, T.H.Y., Chan, D.W., *et al.* Targeting estrogen receptor subtypes (ER $\alpha$  and ER $\beta$ ) with selective ER modulators in ovarian cancer. *J. Endocrinol.* **221**(2), 325-336 (2014).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16025](http://www.caymanchem.com/catalog/16025)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

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