

**Product Name:** tBPC

**Catalog No.:** 6411

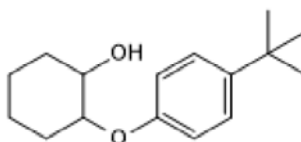
**Batch No.:** 1

CAS Number: 1942-71-8

IUPAC Name: 2-[4-(1,1-Dimethylethyl)phenoxy]cyclohexanol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>24</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 248.36  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	77.38	9.74	
Found	77.38	9.89	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2-[4-(1,1-Dimethylethyl)phenoxy]cyclohexanol

**Description:**

Positive allosteric modulator of neuropeptide Y receptor 4 (Y<sub>4</sub>R). Potentiates Y<sub>4</sub>R response to pancreatic polypeptide (PP), neuropeptide Y (NPY) and peptide YY (PYY) (EC<sub>50</sub> values are 0.03, 0.4 and 0.5 nM respectively). Shows selectivity for Y<sub>4</sub>R over Y<sub>1</sub>R, Y<sub>2</sub>R and Y<sub>5</sub>R.

**Physical and Chemical Properties:**

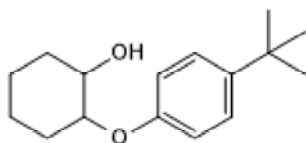
Batch Molecular Formula: C<sub>16</sub>H<sub>24</sub>O<sub>2</sub>

Batch Molecular Weight: 248.36

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Schubert *et al*** (2017) Identification and characterization of the first selective Y<sub>4</sub> receptor positive allosteric modulator. *J.Med.Chem.* **60** 7605. PMID: 28795803.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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