

## Certificate of Analysis

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**Product Name:** TCPOBOP

**Catalog No.:** 1225

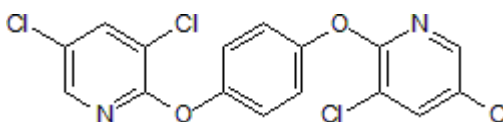
**Batch No.:** 1

CAS Number: 76150-91-9

IUPAC Name: 1,4-Bis(3,5-Dichloro-2-pyridinyloxy)benzene

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>8</sub>Cl<sub>4</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 402.06  
**Physical Appearance:** Brown solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 155 - 156°C  
**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.8	2.01	6.97
Found	47.74	1.97	6.84

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

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**Description:**

Agonist of the constitutive androstane receptor (CAR) (EC<sub>50</sub> = 20 nM). Induces activity of ER1 cytochrome P450 isozymes, NADPH-cytochrome c reductase, microsomal epoxide hydrolase and glutathione S transferase. Potent mitogen; induces liver cell proliferation in mice.

**Physical and Chemical Properties:**

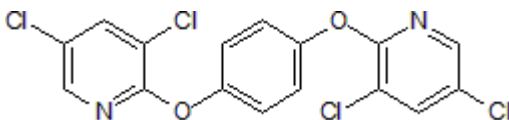
Batch Molecular Formula: C<sub>16</sub>H<sub>8</sub>Cl<sub>4</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 402.06

Physical Appearance: Brown solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Poland** *et al* (1980) 1,4-Bis[2-(3,5-dichloropyridyloxy)]benzene, a potent phenobarbital-like inducer of microsomal monooxygenase activity. *Mol.Pharmacol.* **18** 571. PMID: 7464820.

**Ledda-Columbano** *et al* (1998) *In vivo* hepatocyte proliferation is inducible through a TNF and IL-6-independent pathway. *Oncogene* **17** 1039. PMID: 9747883.

**Tzamei** *et al* (2000) The xenobiotic compound 1,4-bis[2-(3,5-dichloropyridyloxy)]benzene is an agonist ligand for the nuclear receptor CAR. *Mol.Cell.Biol.* **20** 2951. PMID: 10757780.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 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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