

## Certificate of Analysis

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**Product Name:** BADGE

**Catalog No.:** 1326

**Batch No.:** 5

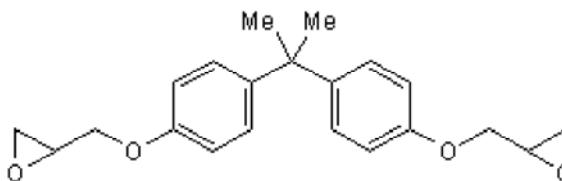
CAS Number: 1675-54-3

EC Number: 216-823-5

IUPAC Name: 2,2-Bis[4-(2,3-epoxypropoxy)phenyl]propane

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>24</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 340.42  
**Physical Appearance:** Colourless Viscous oil  
**Solubility:** ethanol to 50 mM  
DMSO to 100 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**GC:** Shows 96.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

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IUPAC Name: 2,2-Bis[4-(2,3-epoxypropoxy)phenyl]propane

**Description:**

PPAR $\gamma$  pure antagonist with micromolar affinity in 3T3-L1 and 3T3-F442A preadipocyte cells; selective over PPAR $\delta$  and PPAR $\alpha$ . Antagonizes the ability of rosiglitazone to stimulate transcriptional activity of PPAR $\gamma$ . Acts as a PPAR $\gamma$  agonist in an ECV304 cell line. Also produces PPAR $\gamma$ -independent apoptosis of tumor cells via several mechanisms. Active in vivo.

**Physical and Chemical Properties:**

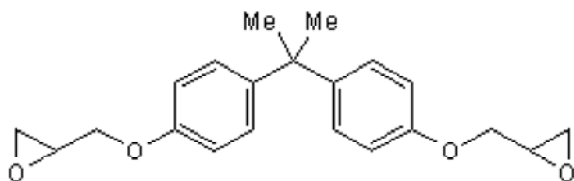
Batch Molecular Formula: C<sub>21</sub>H<sub>24</sub>O<sub>4</sub>

Batch Molecular Weight: 340.42

Physical Appearance: Colourless Viscous oil

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**References:**

**Cuzzocrea et al** (2004) Rosiglitazone, a ligand of the peroxisome proliferator-activated receptor- $\gamma$ , reduces acute inflammation. *Eur.J.Pharmacol.* **483** 79. PMID: 14709329.

**Fehlberg et al** (2003) Bisphenol A diglycidyl ether-induced apoptosis involves Bax/Bid-dependent mitochondrial release of apoptosis-inducing factor (AIF), cytochrome c and Smac/DIABLO. *Br.J.Pharmacol.* **139** 495. PMID: 12788809.

**Bishop-Bailey et al** (2000) Bisphenol A diglycidyl ether (BADGE) is a PPAR $\gamma$  agonist in an ECV304 cell line. *Br.J.Pharmacol.* **131** 651. PMID: 11030710.

**Wright et al** (2000) A synthetic antagonist for the peroxisome proliferator-activated receptor  $\gamma$  inhibits adipocyte differentiation. *J.Biol.Chem.* **275** 1873. PMID: 10636887.

**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

ethanol to 50 mM

DMSO 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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