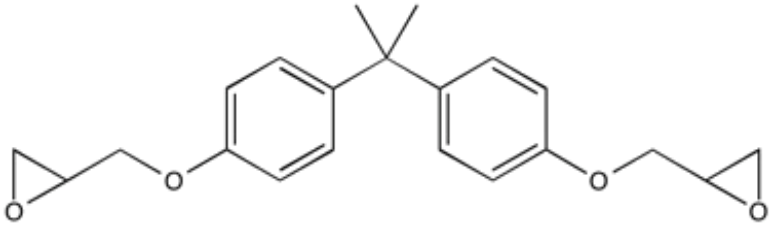
Catalog # 10-2618
BADGE

CAS# 1675-54-3
Bisphenol A diglycidyl ether
2,3-Bis[4-(2,3-epoxypropoxy)phenyl]propane
Lot # X101930



PPARγ antagonist with μM affinity in 3T3-L1 and 3T3-F442A preadipocyte cells. Selective over PPARδ and PPARα. Antagonizes the ability of rosiglitazone to stimulate transcriptional activity of PPARγ and abolishes its anti-inflammatory effects in a mouse model[1]. Induces apoptosis via PPARγ-independent mechanisms[2]. Induces adipogenesis in human and mouse mesenchymal stromal stem cells and in mouse 3T3-L1 preadipocytes at low nM concentrations via a PPARγ independent mechanism[3]. Increases osteoblastogenesis and bone mass in a mouse model[4]. Active *in vivo*.

1) Cuzzocrea *et al*. (2004), *Rosiglitazone, a ligand of the peroxisome proliferator-activated receptor-gamma, reduces acute inflammation*; Eur. J. Pharmacol., **483** 79
2) 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
3) Chamorro-Garcia *et al*. (2012), *Bisphenol A diglycidyl ether induces adipogenic differentiation of multipotent stromal stem cells through a peroxisome proliferator-activated receptor gamma-independent mechanism*; Environ. Health Perspect., **120** 984
4) Duque *et al*. (2013), *Pharmacological inhibition of PPARgamma increases osteoblastogenesis and bone mass in male C57BL/6 mice*; J. Bone Miner. Res., **28** 639

PHYSICAL DATA

Molecular Weight:	340.41
Molecular Formula:	$C_{21}H_{24}O_4$
Purity:	95% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 15 mg/ml)
Physical Description:	White low melting point solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com