

Certificate of Analysis

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Product Name: L-165,041

Catalog No.: 1856

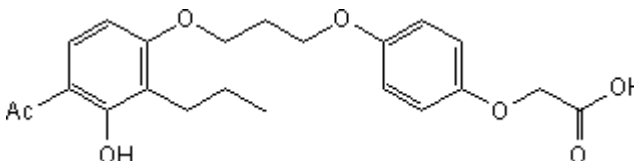
Batch No.: 2

CAS Number: 79558-09-1

IUPAC Name: [4-[3-(4-Acetyl-3-hydroxy-2-propylphenoxy)propoxy]phenoxy]acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆O₇
Batch Molecular Weight: 402.44
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
 DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.39 (Dichloromethane:Methanol:Acetic acid [10:1:0.1])
Melting Point: At 136°C
HPLC: Shows >98.3% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.66	6.51	
Found	65.43	6.52	

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

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Description:

Potent PPAR δ agonist (K_i = 6 nM); displays > 100-fold selectivity for both mouse and human PPAR δ receptors over other subtypes. Raises plasma cholesterol levels in vivo, in insulin-resistant db/db mice. Neuroprotective in models of cerebral infarction and Parkinson's disease.

Physical and Chemical Properties:

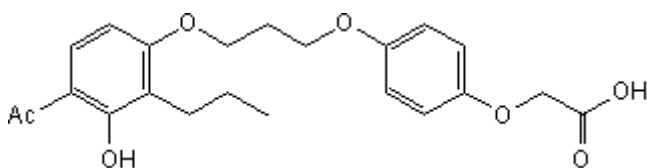
Batch Molecular Formula: C₂₂H₂₆O₇

Batch Molecular Weight: 402.44

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

1eq. NaOH to 100 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.

References:

Berger et al (1999) Novel peroxisome proliferator-activated receptor (PPAR) γ and PPAR δ ligands produce distinct biological effects. *J.Biol.Chem.* **274** 6718. PMID: 10037770.

Leibowitz et al (2000) Activation of PPAR δ alters lipid metabolism in db/db mice. *FEBS Lett.* **473** 333. PMID: 10818235.

Iwashita et al (2007) Neuroprotective efficacy of the peroxisome proliferator-activated receptor δ -selective agonists in vitro and in vivo. *J.Pharmacol.Exp.Ther.* **320** 1087. PMID: 17167170.

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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

Tel: +1 612 379 2956