

Certificate of Analysis

Product Name: AC 261066

Catalog No.: 4046

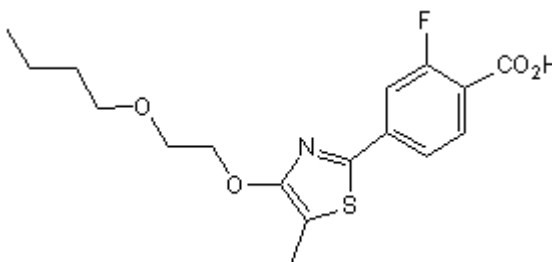
Batch No.: 1

CAS Number: 870773-76-5

IUPAC Name: 4-[4-(2-Butoxyethoxy)-5-methyl-2-thiazolyl]-2-fluorobenzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀FNO₄S
Batch Molecular Weight: 353.41
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.03 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.78	5.7	3.96
Found	57.94	5.72	3.9

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

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Description:

Potent RAR β 2 agonist (pEC₅₀ = 8.1). Selective over RAR β 1, RAR α and RAR γ (pEC₅₀ values are 6.4, 6.2 and 6.3 respectively). More potent and orally available than AC 55649 (Cat. No. 2436).

Physical and Chemical Properties:

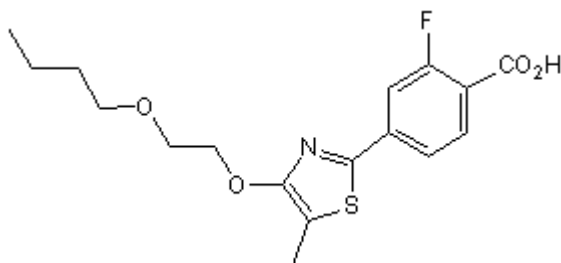
Batch Molecular Formula: C₁₇H₂₀FNO₄S

Batch Molecular Weight: 353.41

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

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.

References:

Lund *et al* (2005) Discovery of a potent, orally available, and isoform-selective retinoic acid β 2 receptor agonist. *J.Med.Chem.* **48** 7517. PMID: 16302793.

Lund *et al* (2009) Design, synthesis, and structure-activity analysis of isoform-selective retinoic acid receptor β ligands. *J.Med.Chem.* **52** 1540. PMID: 19239230.

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