

Product Name: EC 19

Catalog No.: 5849

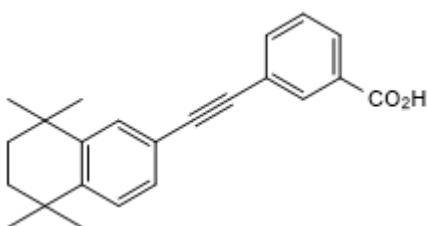
Batch No.: 1

CAS Number: 1010694-08-2

IUPAC Name: 3-[2-(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)ethynyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₄O₂·¼H₂O
Batch Molecular Weight: 336.94
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.99	7.33	0
Found	82.1	7.41	0

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

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Description:

Synthetic analogue of all *trans*-retinoic acid. Promotes differentiation of human embryonal carcinoma (EC) cells primarily into epithelial-like cells, along with a small number of neurons.

Physical and Chemical Properties:

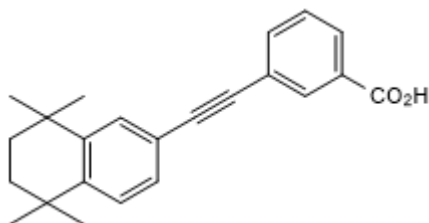
Batch Molecular Formula: C₂₃H₂₄O₂·¼H₂O

Batch Molecular Weight: 336.94

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Clemens *et al* (2013) The action of all-*trans*-retinoic acid (ATRA) and synthetic retinoid analogues (EC19 and EC23) on human pluripotent stem cells differentiation investigated using single cell infrared microspectroscopy. *Mol.Biosyst.* **9** 677. PMID: 23364809.

Christie *et al* (2008) Synthesis and evaluation of synthetic retinoid derivatives as inducers of stem cell differentiation. *Org.Biomol.Chem.* **6** 3497. PMID: 19082150 .

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