

Product Name: TTNPB

Catalog No.: 0761

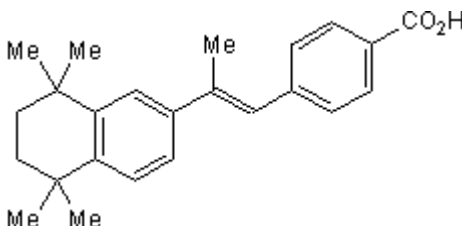
Batch No.: 4

CAS Number: 71441-28-6

IUPAC Name: 4-[(E)-2-(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-1-propenyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₈O₂
Batch Molecular Weight: 348.48
Physical Appearance: White solid
Solubility: DMSO to 10 mM
 ethanol to 5 mM with gentle warming
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol:AcOH [90:9:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	82.72	8.1	
Found	82.49	8.11	

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

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Description:

Extremely potent analog of retinoic acid, selective for the retinoic acid receptor (RAR) subtype. Enhances reprogramming efficiency in chemically induced pluripotent stem cells (CiPSCs).

Physical and Chemical Properties:

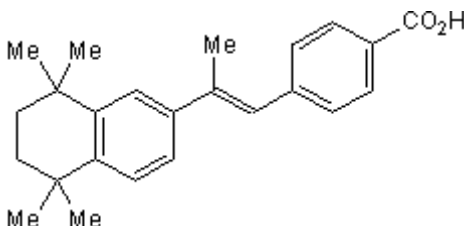
Batch Molecular Formula: C₂₄H₂₈O₂

Batch Molecular Weight: 348.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 10 mM

ethanol to 5 mM with gentle warming

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:

Loeliger et al (1980) Arotinoids, a new class of highly active retinoids. *Eur.J.Med.Chem.-Chim.Ther.* **15** 9.

Minucci et al (1996) Retinoid X receptor-selective ligands produce malformations in *Xenopus* embryos. *Proc.Natl.Acad.Sci.U.S.A.* **93** 1803. PMID: 8700839.

Hou et al (2013) Pluripotent stem cells induced from mouse somatic cells by small-molecule compounds. *Science* **341** 651. PMID: 23868920.

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