

**Product Name:** AGN 193109

**Catalog No.:** 5758

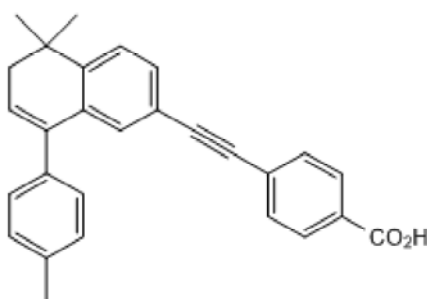
**Batch No.:** 7

CAS Number: 171746-21-7

IUPAC Name: 4-[2-[5,6-Dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]ethynyl]benzoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>24</sub>O<sub>2</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 396.99  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 5 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	84.71	6.22	0
Found	85.05	6.26	0.05

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

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**Description:**

High affinity pan-retinoic acid receptor (RAR) antagonist ( $K_d$  values are 2, 2 and 3 nM at RAR $\alpha$ , RAR $\beta$  and RAR $\gamma$ , respectively). Exhibits no significant affinity for retinoic X receptors.

**Physical and Chemical Properties:**

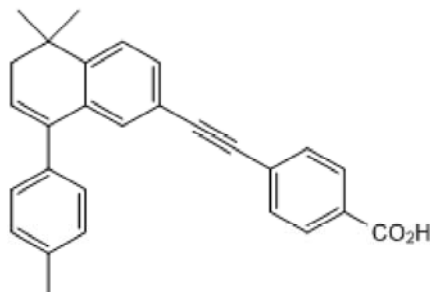
Batch Molecular Formula: C<sub>28</sub>H<sub>24</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 396.99

Physical Appearance: Off White solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO 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:**

**Jaurena *et al*** (2015) Zic1 controls placode progenitor formation non-cell autonomously by regulating retinoic acid production and transport. *Nat. Commun.* **6** 7476. PMID: 26101153.

**Levi *et al*** (2015) Saturated fatty acids regulate retinoic acid signalling and suppress tumorigenesis by targeting fatty acid-binding protein 5 *Nat. Commun.* **6** 8794. PMID: 26592976.

**Agarwal *et al*** (1996) AGN193109 is a highly effective antagonist of retinoid action in human ectocervical epithelial cells. *J. Biol. Chem.* **271** 12209. PMID: 8647816.

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