

**Product Name:** BMS 753

**Catalog No.:** 3505

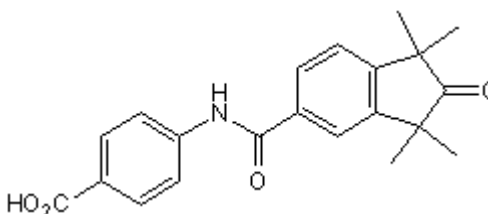
**Batch No.:** 1

CAS Number: 215307-86-1

IUPAC Name: 4-[[[(2,3-Dihydro-1,1,3,3-tetramethyl-2-oxo-1H-inden-5-yl)carbonyl]amino]benzoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>NO<sub>4</sub>  
**Batch Molecular Weight:** 351.4  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.2 (Chloroform:Methanol [10:1])  
**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	71.78	6.02	3.99
Found	71.64	6.17	3.98

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**Description:**

RAR $\alpha$ -selective agonist ( $K_i = 2$  nM).

**Physical and Chemical Properties:**

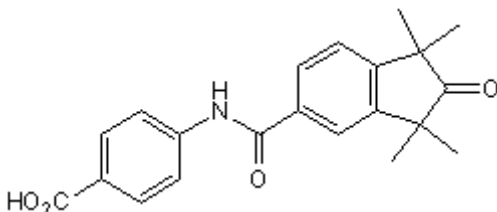
Batch Molecular Formula: C<sub>21</sub>H<sub>21</sub>NO<sub>4</sub>

Batch Molecular Weight: 351.4

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**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:**

**Taneja et al** (1996) Cell-type and promoter-context dependent retinoic acid receptor (RAR) redundancies for *RAR $\beta$ 2* and *Hoxa-1* activation in F9 and P19 cells can be artefactually generated by gene knockouts. *Proc.Natl.Acad.Sci.USA* **93** 6197.

**Dilworth et al** (1999) Ligand-dependent activation of transcription *in vitro* by retinoid acid receptor  $\alpha$ /retinoid X receptor  $\alpha$  heterodimers that mimics transactivation by retinoids *in vivo*. *Proc.Natl.Acad.Sci.USA* **96** 1995.

**Gehin et al** (1999) Structural basis for engineering of retinoic acid receptor isotype-selective agonists and antagonists. *Chem.Biol.* **6** 519. PMID: 10421757.

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