bio-techne
TOCRIS

Print Date: Feb 23rd 2026

Certificate of Analysis

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Product Name: **BMS 753** **Catalog No.: 3505** **Batch No.: 2**

CAS Number: 215307-86-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{21}NO_4$

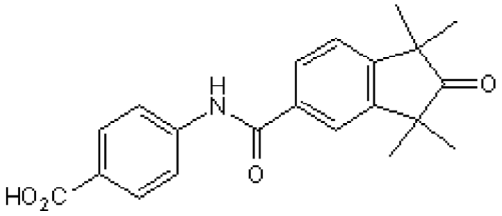
Batch Molecular Weight: 351.4

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.78	6.02	3.99
Found	71.14	5.86	3.91

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Description:

BMS 753 is a RARα-selective agonist (K_i = 2 nM).

Physical and Chemical Properties:

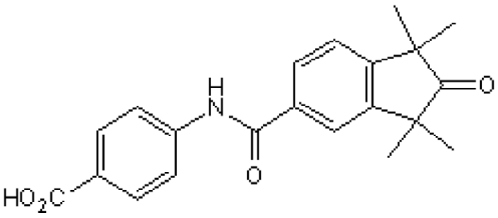
Batch Molecular Formula: $C_{21}H_{21}NO_4$

Batch Molecular Weight: 351.4

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Dilworth *et al* (1999) Ligand-dependent activation of transcription *in vitro* by retinoid acid receptor α/retinoid X receptor α heterodimers that mimics transactivation by retinoids *in vivo*. Proc.Natl.Acad.Sci.USA ***96*** 1995. PMID: 10051583.

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

Taneja *et al* (1996) Cell-type and promoter-context dependent retinoic acid receptor (RAR) redundancies for *RARβ2* and *Hoxa-1* activation in F9 and P19 cells can be artefactually generated by gene knockouts. Proc.Natl.Acad.Sci.USA ***93*** 6197. PMID: 8650243.