

## Tamibarotene (AM80)

**CAS Registry No.:** 94497-51-5

**Formal Name:** 4-((5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)carbamoyl)benzoic acid

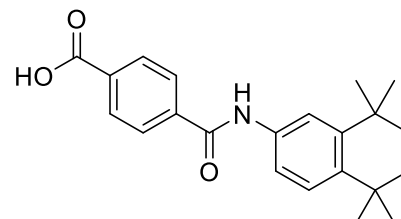
**EUbOPEN ID:** EUB0000566a

**Molecular Formula:** C<sub>22</sub>H<sub>25</sub>NO<sub>3</sub>

**Molecular Weight:** 351.45 g/mol

**Smiles:** CC1(CCC(C2=C1C=CC(=C2)NC(=O)C3=CC=C(C=C3)C(=O)O)(C)C)C

**Recommended concentration:** 1 μM

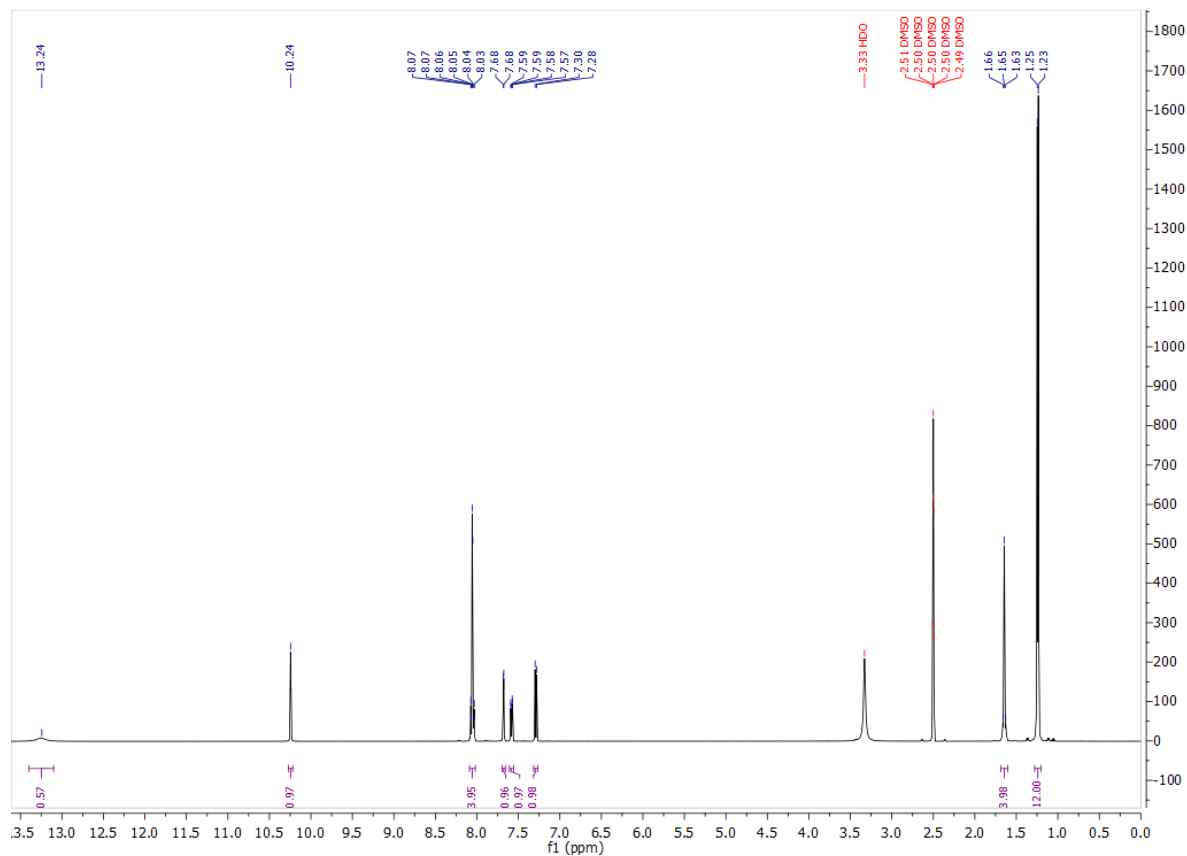


### Biological activity

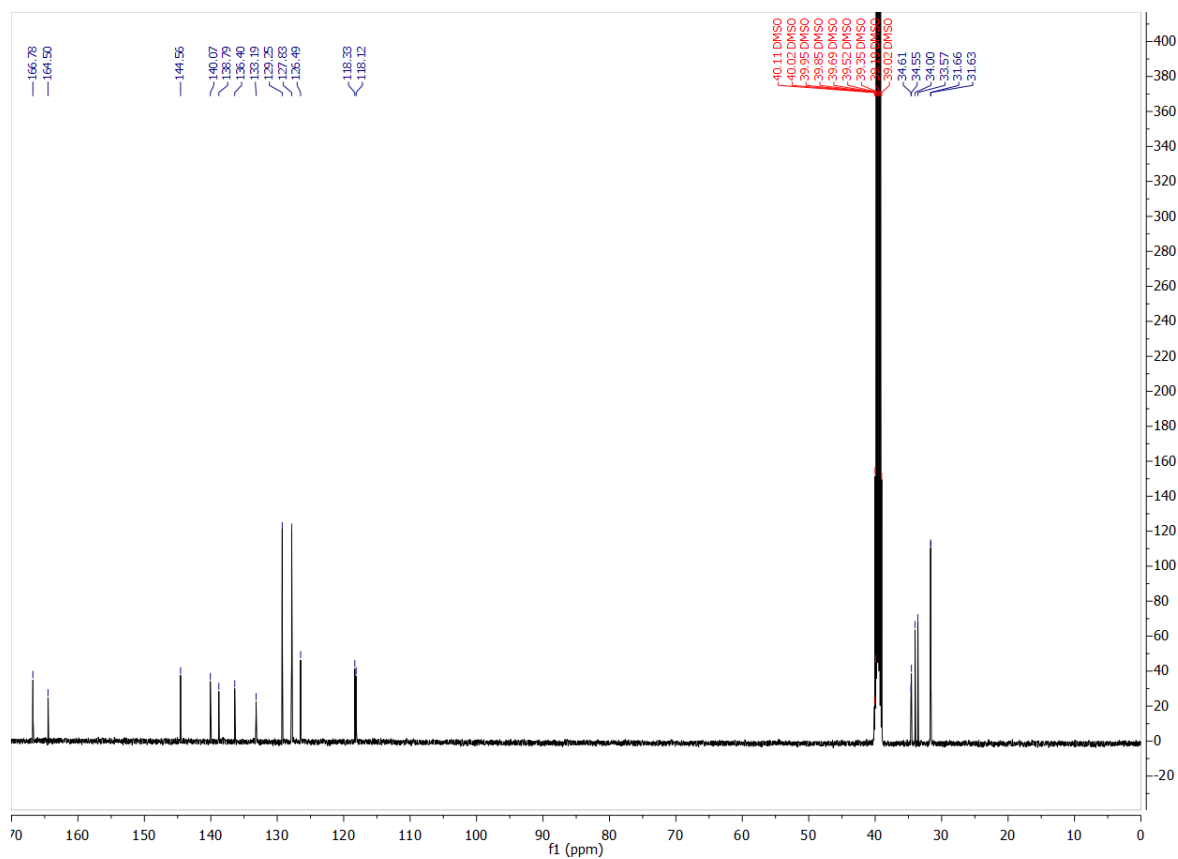
		Type	IC <sub>50</sub> /EC <sub>50</sub> [μM]	Reference
Main NR target:	NR1B1 (RARα)	Agonist	0.05	<a href="https://doi.org/10.1021/jm100189a">https://doi.org/10.1021/jm100189a</a>
	NR1B2 (RARβ)	Agonist	0.2	
	NR1B3 (RARγ)	Agonist	0.6	
NR off-target:				

## Identity

### <sup>1</sup>H NMR



### <sup>13</sup>C NMR



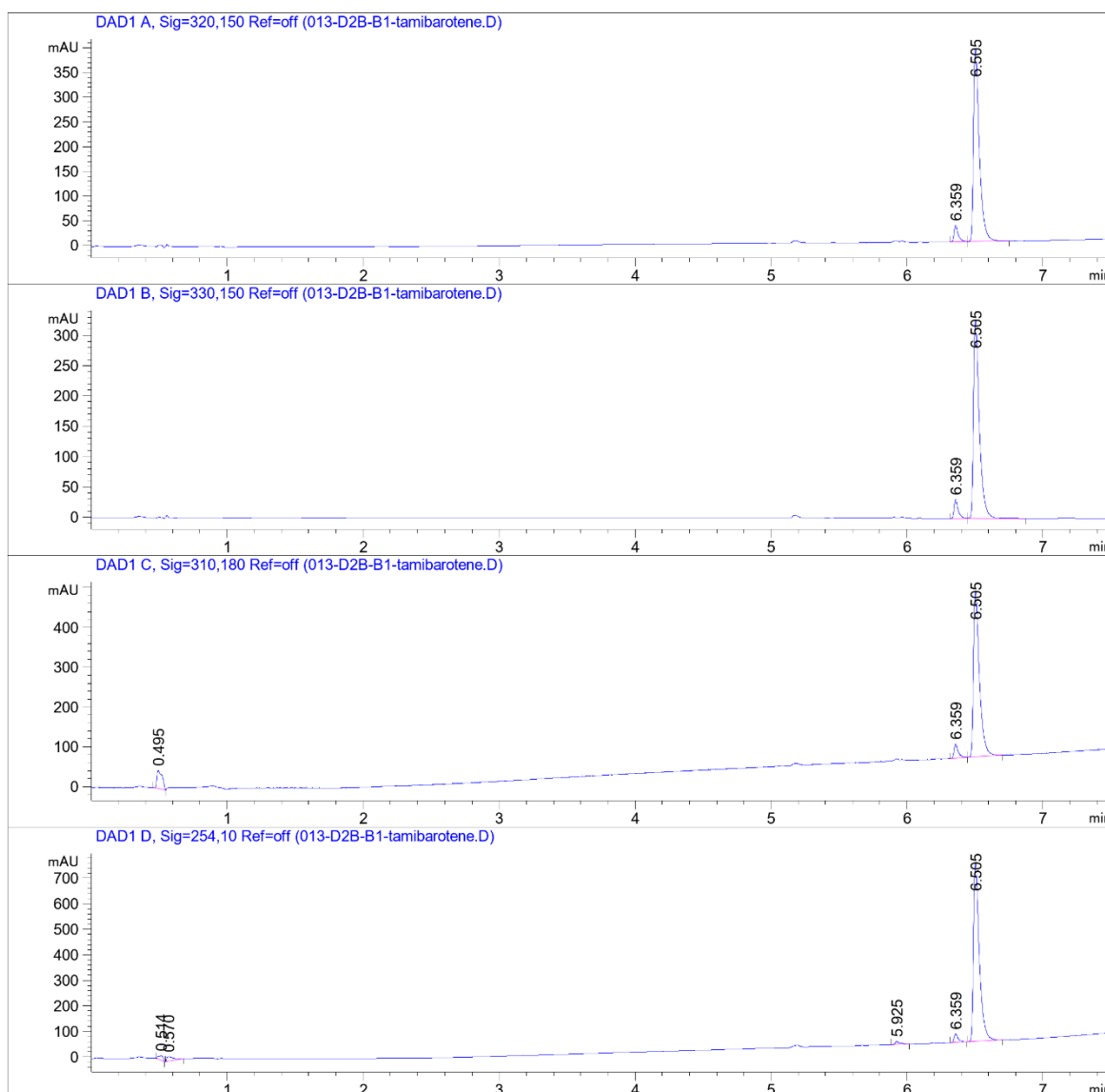
# COMPOUND INFORMATION

## Purity

Data File W:\analyti...CGC\_ECH01-3\_FirstPass 2021-03-20 13-21-54\013-D2B-B1-tamibarotene.D

Sample Name: tamibarotene

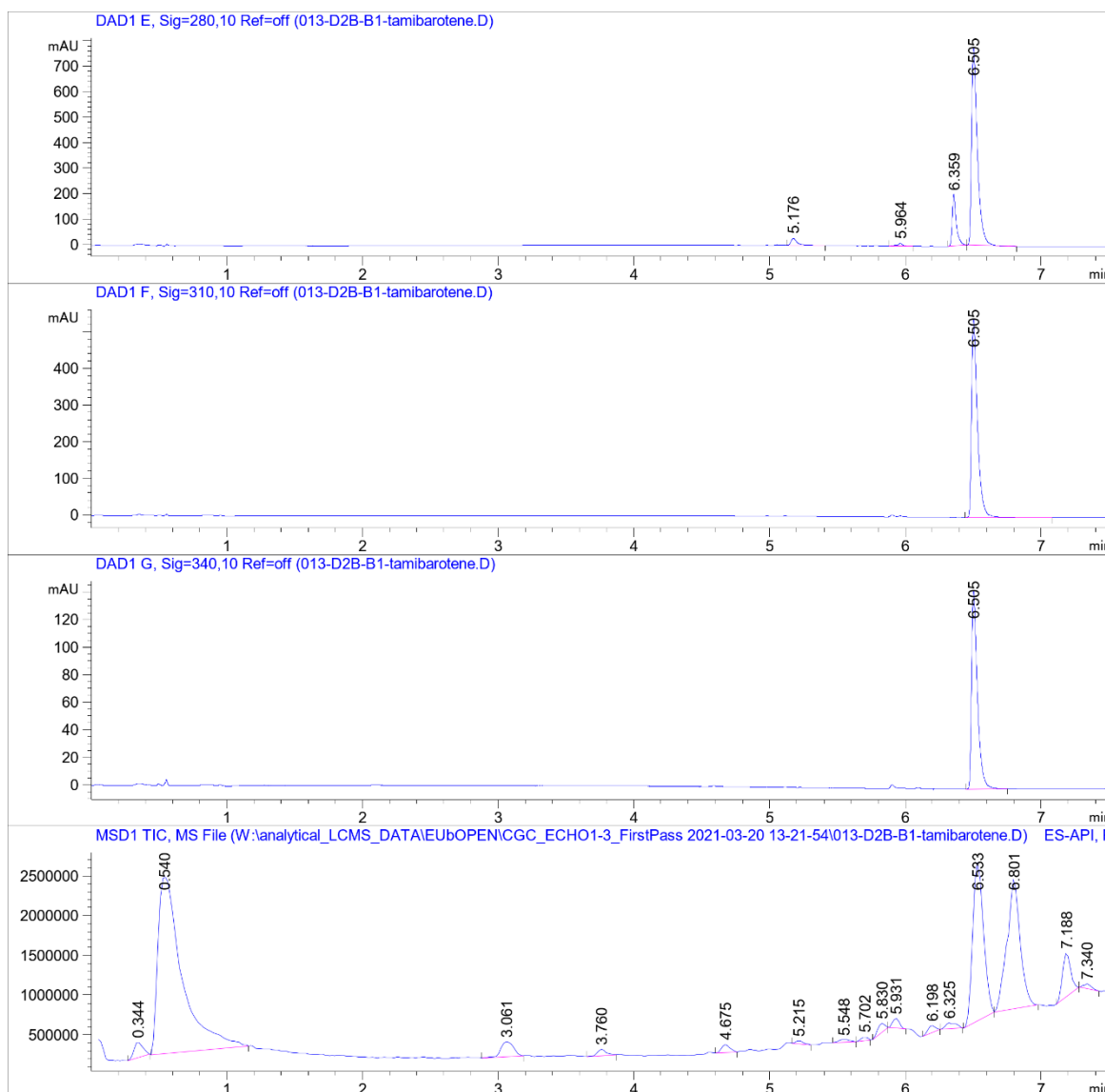
```
=====
Acq. Operator   : SYSTEM                      Seq. Line :   13
Sample Operator : SYSTEM
Acq. Instrument : LCMS test                   Location  : D2B-B1
Injection Date  : 3/20/2021 3:38:37 PM       Inj       :    1
                                           Inj Volume: Inj prog
Sequence File   : W:\analytical_LCMS_DATA\EUBOPEN\CGC_ECH01-3_FirstPass 2021-03-20 13-21-54
                                           \CGC_ECH01-3_FirstPass.S
Method          : W:\analytical_LCMS_DATA\EUBOPEN\CGC_ECH01-3_FirstPass 2021-03-20 13-21-54
                                           \CGL_FIRSTPASS_GENERALMETHOD_VIAL3+4_20210319.M (Sequence Method)
Last changed    : 3/19/2021 5:35:24 PM by SYSTEM
Method Info     : CGL wellplate, 0.5 uL of 10 mM DMSO, general method
=====
```



# COMPOUND INFORMATION

Data File W:\analyti...CGC\_ECHO1-3\_FirstPass 2021-03-20 13-21-54\013-D2B-B1-tamibarotene.D

Sample Name: tamibarotene



# COMPOUND INFORMATION



Data File W:\analyti...CGC\_ECHO1-3\_FirstPass 2021-03-20 13-21-54\013-D2B-B1-tamibarotene.D

Sample Name: tamibarotene

MS Signal: MSD1 TIC, MS File, ES-API, Pos, Scan, Frag: 70, "POS Scan"

Spectra from peak tops.

Noise Cutoff: 1000 counts.

Reportable Ion Abundance: > 50%.

LC Signal: DAD1 A, Sig=320,150 Ref=off

Peak matching window: 0.1 min

Retention Time (LC)	LC Area	Retention Time (MS)	MS Area	Mol. Weight or Ion
-	-	0.344	900849	158.00 I
-	-	0.540	27320490	157.00 I
-	-	3.061	1157963	217.00 I
-	-	3.760	370769	274.20 I
-	-	4.675	441213	326.30 I
-	-	5.215	170311	316.30 I 298.20 I 296.20 I 200.00 I 158.90 I 111.00 I 102.10 I
-	-	5.548	168250	326.20 I 280.20 I 102.20 I
-	-	5.702	168069	280.20 I
-	-	5.830	419190	296.20 I
-	-	5.931	414708	296.20 I 294.20 I 280.20 I
-	-	6.198	336896	280.20 I 228.20 I
6.359	69	6.325	405567	254.20 I
6.505	1163	6.533	10910815	352.10 I
-	-	6.801	10984832	282.30 I
-	-	7.188	2311659	284.30 I 282.20 I
-	-	7.340	244243	400.30 I 282.20 I

