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Print Date: Nov 8th 2023

Batch No.: 5

Certificate of Analysis

www.tocris.com

Catalog No.: 0760

 CO_2H

Product Name: AM 580

CAS Number: 102121-60-8

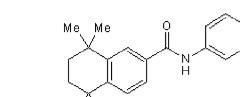
IUPAC Name: 4-[(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)carboxamido]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₂H₂₅NO₃.¼H₂O 355.94 White solid DMSO to 100 mM ethanol to 50 mM Store at RT



Me Me

2. ANALYTICAL DATA

Storage:

HPLC: ¹H NMR: Mass Spectrum:

Microanalysis:

Shows 99.7% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen Theoretical 74.24 7.22 3.94 Found 73.88 7.3 3.89

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

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Product Name: AM 580

CAS Number: 102121-60-8

4-[(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)carboxamido]benzoic acid

Description:

IUPAC Name:

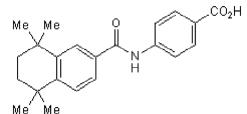
AM 580 is an analog of retinoic acid that acts as a selective RAR α agonist (EC₅₀ values are 0.3, 8.6 and 13 nM for RAR α , RAR β and RAR γ respectively). Significantly induces IL-4, IL-5 and IL-13 and inhibits IL-12 and IFN γ synthesis, and induces cell differentiation with over 7 times the activity of retinoic acid in vitro. AM 580 synthesized to Ancillary Material Grade also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₂₅NO₃.¹/₄H₂O Batch Molecular Weight: 355.94 Physical Appearance: 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:

So	me sol	lutions ca	an be difficu	ılt to	o obtair	and can	be e	end	couraged
by	rapid	stirring,	sonication	or	gentle	warming	(in	а	45-60°C
wa	ter bat	h).							

Catalog No.: 0760

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:

Wang et al (2011) Rapid and efficient reprogramming of somatic cells to induced pluripotent stem cells by retinoic acid receptor gamma and liver receptor homolog 1. Proc.Natl.Acad.Sci.U.S.A. **108** 18283. PMID: 21990348.

Charton et al (2009) Novel non-carboxylic acid retinoids: 1,2,4-oxadiazol-5-one derivatives. Bioorg.Med.Chem.Lett. 19 489. PMID: 19058965.

Dawson *et al* (2008) The retinoic acid receptor-α mediates human T-cell activation and Th2 cytokine and chemokine production. BMC Immunol. **9** 16. PMID: 18416830.

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