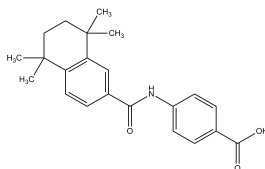


**Product: AM580**

**ALTERNATE NAME:** 4-[[[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl) carbonyl]amino]-benzoic acid; RO 40-6055; CD336; NSC 608001

**CATALOG #:** 2635-1, 5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**

**MOLECULAR FORMULA:** C<sub>22</sub>H<sub>25</sub>NO<sub>3</sub>

**MOLECULAR WEIGHT:** 351.44

**CAS No.** 102121-60-8

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (~15 mg/ml)

**PURITY:** >98%

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** AM580 is an analog of Retinoic acid (Cat. No. 2218) that acts as a retinoic acid receptor agonist that is selective for RAR $\alpha$  ( $K_d$  = 8 nM;  $AC_{50}$  = 0.36 nM) compared to RAR $\beta$  ( $K_d$  = 131 nM;  $AC_{50}$  = 24.6 nM) and RAR $\gamma$  ( $K_d$  = 450 nM;  $AC_{50}$  = 27.9 nM). It displays greater specific binding to RAR $\alpha$  compared to retinoic acid which exhibits little selectivity across RAR $\alpha$ ,  $\beta$ , or  $\gamma$ . AM580 has been used in combination with the GSK3 $\beta$  inhibitor CHIR99021 (Cat. No. 1677) to efficiently induce differentiation of human induced pluripotent stem cells into immediate mesoderm.

**REFERENCES:** Bernard, B.A., et al. (1992). *Biochem. Biophys. Res. Commun.* **186**, 977-983.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

DiscoveryPak™ Stem Cell Fate Regulator Set I (Cat. No. **K852-3**)  
DiscoveryPak™ Stem Cell Fate Regulator Set II (Cat. No. **K853-8**)  
DiscoveryPak™ Stem Cell Fate Regulator Set III (Cat. No. **K854-3**)  
DiscoveryPak™ Stem Cell Fate Regulator Set IV (Cat. No. **K855-3**)  
DiscoveryPak™ Stem Cell Fate Regulator Set V (Cat. No. **K865-5**)  
DiscoveryPak™ Stem Cell Fate Regulator Set VI (Cat. No. **K866-5**)  
DiscoveryPak™ Stem Cell Fate Regulator Set VII (Cat. No. **K866-10**)  
(±) -Bay K 8644 (Cat. No. **1682-5**)  
BIX01294 (Cat. No. **1678-5, 25**)  
CHIR99021 (Cat. No. **1677-5, 25**)  
EZSolution™ CHIR99021 (Cat. No. **1748-5**)  
PD0325901 (Cat. No. **1643-2**)  
PluriSin1 (Cat. No. **2471-10, 50**)  
PS-48 (Cat. No. **1869-5**)  
PyrIntegrin (Cat. No. **1729-1,5**)  
EZSolution™ PyrIntegrin (Cat. No. **1737-1**)  
RepSox (Cat. No. **1894-5, 25**)  
Reversine (Cat. No. **1851-1, 5**)  
RG 108 (Cat. No. **1679-10,30**)  
SB-431542 (Cat. No. **1674-1**)  
EZSolution™ **SB-431542** (Cat. No. **1872-1**)  
SCD1 Inhibitor (Cat. No. **1716-1, 5**)  
Sodium Butyrate (Cat. No. **1609-100, 1000**)  
StemBoost™ Reprogramming Cocktail Set I (Cat. No. **K869-1ML, 5ML, 1set**) StemBoost™  
Reprogramming Cocktail Set II (Cat. No. **K870-1ML, 5ML, 1set**)  
Thiazovivin (Cat. No. **1681-1,5**)  
EZSolution™ Thiazovivin (Cat. No. **1736-1**)  
Tranylcypromine Hemisulfate (Parnate) (Cat. No. **1816-25,100**)  
Valproic Acid, Sodium Salt (Cat. No. **1647-200**)  
Y-27632,2 HCl (Cat. No. **1596-1, 5, 50**)  
EZSolution™ Y-27632, HCl (Cat. No. **1784-5**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**