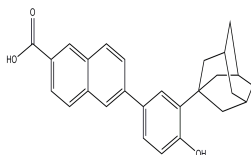


**Product: CD437****ALTERNATE NAME:** 6-(4-hydroxy-3-tricyclo[3.3.1.1.3,7]dec-1-ylphenyl)-2-naphthalenecarboxylic acid; AHPN**CATALOG #:** 2636-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>27</sub>H<sub>26</sub>O<sub>3</sub>**MOLECULAR WEIGHT:** 398.49**CAS No.** 125316-60-1**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>10 mg/ml)**PURITY:** >95%**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** CD437 is the adamantyl arotinoid of the retinoid-related molecule family that acts as a selective agonist of retinoic acid receptor (RAR) $\gamma$  (K<sub>d</sub>s = 6.5  $\mu$ M, 2.5  $\mu$ M, and 77 nM for RAR $\alpha$ ,  $\beta$ , and  $\gamma$ , respectively). CD437 is cytotoxic to the acute myeloid leukemia cell line NB4 (EC<sub>50</sub> = 0.17  $\mu$ M), inducing DNA damage by producing DNA double strand breaks. CD437 also induces cell cycle arrest and apoptosis in various other cancer cells including melanoma, breast, non-small lung, and prostate cancer cells through RAR-dependent and -independent signaling pathways. Treatment of mouse embryonic fibroblasts (MEFs) with CD437 early in the reprogramming process significantly increases reprogramming efficiency up to 20-fold.

**REFERENCES:** Wang, W., *et al.* (2011). *Proc. Natl. Acad. Sci. USA* **108**, 18283-18288.

**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)  
Tranlycypromine 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.**