

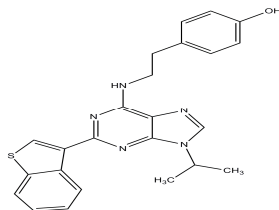
StemRegenin 1, Free base

ALTERNATE NAME: 4-((2-(2-Benzo[b]thiophen-3-yl)-9-isopropyl-9H-purin-6-yl)amino)ethyl)phenol ; SR1

CATALOG #: 2642-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₄H₂₃N₅OS

MOLECULAR WEIGHT: 429.54

CAS NUMBER: 1227633-49-9

APPEARANCE: White solid

SOLUBILITY: DMSO (~ 10 mg/ml)

PURITY: ≥98% by HPLC

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

DESCRIPTION: A cell-permeable purine derivative that acts as an antagonist of aryl hydrocarbon receptor and promotes the self-renewal of hematopoietic stem cells (HSCs). Culture of HSCs with SR1 led to a 50-fold increase in cells expressing CD34 and a 17-fold increase in cells that retain the ability to engraft immunodeficient mice. In the absence of cytokines, StemRegenin 1 did not induce proliferation, and at concentrations above 1 μM, it inhibits proliferation.

REFERENCE: Boitano, A.E., *et al.* (2010). *Science* **329**, 1345-1348.

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 on humans.