

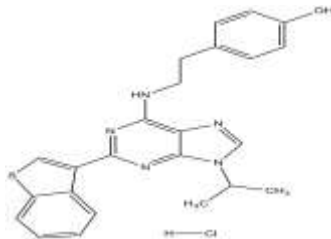
StemRegenin 1, Hydrochloride

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

CATALOG #: 1967-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{24}H_{23}N_5OS \cdot HCl$

MOLECULAR WEIGHT: 466.0

CAS NUMBER: 1227633-49-9

APPEARANCE: White solid

SOLUBILITY: DMSO (~ 10 mM)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from 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 μ M, it inhibits proliferation.

REFERENCE: Boitano, A.E., *et al.* (2010). *Science* **329**, 1291-1291.

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

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- A83-01 (Cat. No. 1725-1)
- BIO (Cat. No. 1673-1)
- CHIR99021 (Cat. No. 1677-5, 25)
- EZSolution™ CHIR99021 (Cat. No. 1748-5)
- GSK-3 β Inhibitor, TWS119 (Cat. No. 1655-2)
- Heparin Binding Peptide I (Cat. No. 1821-5, 25)
- Heparin Binding Peptide II (Cat. No. 1822-5, 25)
- Heparin Binding Peptide III (Cat. No. 1823-5, 25)
- Integrin Ligand Peptide (Cat. No. 1824-5, 25)
- IQ-1 (Cat. No. 1663-1)
- PD 173074 (Cat. No. 1675-1)
- PD98059 (Cat. No. 1666-5)
- EZSolution™ PD98059 (Cat. No. 1783-5)
- PD 0325901 (Cat. No. 1643-2, 5, 25)
- PD 184352 (Cat. No. 1585-1, 5, 25)
- EZSolution™ PD184352 (Cat. No. 1871-1)
- Pifithrin- α (Cat. No. 1554-10)
- Pyrintegrin (Cat. No. 1729-1, 5)
- EZSolution™ Pyrintegrin (Cat. No. 1737-1)
- QS-1 (Cat. No. 1680-5)
- SU-5402 (Cat. No. 1645-05)
- Thiazovivin (Cat. No. 1681-1, 5)
- EZSolution™ Thiazovivin (Cat. No. 1736-1)
- XAV939 (Cat. No. 1727-1)
- Y-27632 (Cat. No. 1596-1, 5, 50)