

# StemRegenin 1

Catalog No: tcsc1643



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

1227633-49-9

**Formula:**

$C_{24}H_{23}N_5OS$

**Pathway:**

Immunology/Inflammation

**Target:**

Aryl Hydrocarbon Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 33$  mg/mL (76.83 mM)

**Alternative Names:**

SR1

**Observed Molecular Weight:**

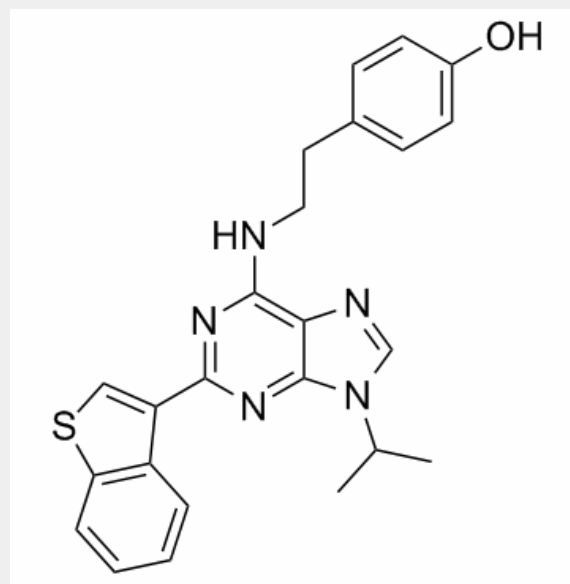
429.54

## Product Description

StemRegenin 1 is a potent aryl hydrocarbon receptor (**AhR**) antagonist with **IC<sub>50</sub>** of 127 nM.

IC50 & Target: IC50: 127 nM (AhR)<sup>[1]</sup>

**In Vitro:** StemRegenin 1 (SR1) acts by antagonizing the aryl hydrocarbon receptor (AhR). StemRegenin 1 increases the number of CD34<sup>+</sup> cells after 5 to 7 days with an EC<sub>50</sub> of ~120 nM. StemRegenin 1 inhibits photoaffinity ligand (PAL) binding (IC<sub>50</sub>=40 nM). These results support the conclusion that StemRegenin 1 -induced CD34<sup>+</sup> cell expansion is mediated through direct binding and inhibition of the AhR<sup>[1]</sup>. An aryl hydrocarbon receptor antagonist, StemRegenin 1 (SR1), robustly promotes ex vivo expansion of human CD34<sup>+</sup> cells. StemRegenin 1 treatment accelerates the proliferation of CD34<sup>+</sup> cells and decreases the expression levels of VentX<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!