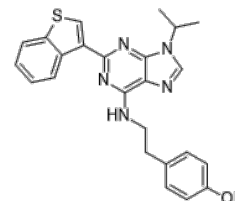


Product Name : Stemregenin 1
Cat. No. : PC-26705
CAS No. : 1227633-49-9
Molecular Formula : C₂₄H₂₃N₅OS
Molecular Weight : 429.54
Target : Aryl hydrocarbon Receptor (AhR)
Solubility : 10 mM in DMSO



Biological Activity

StemRegenin 1 (SR1) is a potent, selective antagonist of **aryl hydrocarbon receptor** (AHR) with IC₅₀ of 127 nM, promotes the expansion of human hematopoietic stem cell (HSC).

SR1 promotes the retention of CD34 expression following ex vivo culture with an EC₅₀ of 120 nM.

SR1 also expands the number of colony forming cells (CFU).

SR1 only weakly inhibits TCDD-induced transcription in murine cells and has no activity on rat cells, suggesting that SR1 preferentially inhibits human AhR.

SR1 inhibits AhR photoaffinity ligand (PAL) in liver cytosol isolated from hAhR transgenic mice with IC₅₀ of 40 nM in competitive binding assays.

References

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Boitano AE, et al. *Science.* 2010 Sep 10;329(5997):1345-8.

Gori JL, et al. *Blood.* 2012 Sep 27;120(13):e35-44.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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