

Product Information

AhR inhibitor, StemRegenin 1, Purity $\geq 98\%$

Cat. No.: X24-09-YM450

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD16987861

CAS Number: 1227633-49-9

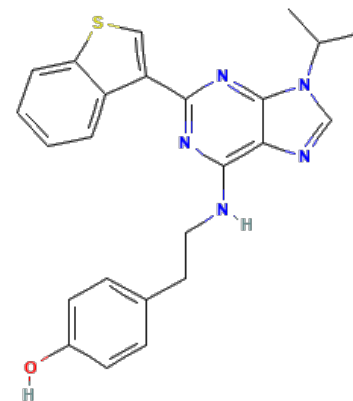
Compound CID: 46199207

Synonym: 1227633-49-9; SR-1;

4-(2-(2-(Benzo[b]thiophen-3-yl)-9-isopropyl-9H-purin-6-ylamino)ethyl)phenol;

StemRegenin1; Stemregenin 1 (GMP); StemRegenin 1(SR-1);

4-[2-[[2-(1-Benzothiophen-3-yl)-9-propan-2-ylpurin-6-yl]amino]ethyl]phenol; AhR inhibitor



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	StemRegenin 1, soluble in DMSO and insoluble in water and ethanol, is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting AhR. The molecular weight of the compound is 429.5, and its molecular formula is C ₂₄ H ₂₃ N ₅ OS. It targets the Aryl hydrocarbon receptor (AhR) ().
Molecular Weight	429.5
Molecular Formula	C ₂₄ H ₂₃ N ₅ OS
Targets	Aryl hydrocarbon receptor (AhR)
IUPAC Name	4-[2-[[2-(1-Benzothiophen-3-yl)-9-propan-2-ylpurin-6-yl]amino]ethyl]phenol
InChI	InChI=1S/C24H23N5OS/c1-15(2)29-14-26-21-23(25-12-11-16-7-9-17(30)10-8-16)27-22(28-24(21)29)19-13-31-20-6-4-3-5-18(19)20/h3-10,13-15,30H,11-12H2,1-2H3,(H,25,27,28)
InChI Key	BGFHMYJZJZLMHW-UHFFFAOYSA-N
Canonical SMILES	CC(C)N1C=NC2=C(N=C(N=C21)C3=CSC4=CC=CC=C43)NCCC5=CC=C(C=C5)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 84 mg/mL (195.55 mM); Water: insoluble; Ethanol: insoluble
Identity	Confirmed by NMR/HPLC/MS.



Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	StemRegenin 1 plays a key role in modulating the aryl hydrocarbon receptor (AHR) pathway, leading to increased stem cell proliferation and survival.
Storage	Store at -20°C, and keep desiccated.
