

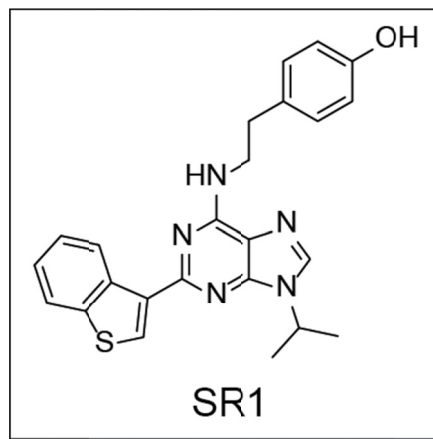


## Product Specification Sheet

**Product Name:** StemRegenin1 (SR1)  
**Catalog Number:** C7710-1 (powder)  
C7710-1s (10 mM in DMSO)  
**Package Size:** 1 mg

### Technical information:

**Chemical Formula:** C<sub>24</sub>H<sub>23</sub>N<sub>5</sub>OS  
**CAS #:** 1227633-49-9  
**Molecular Weight:** 429.54  
**Purity:** >98%  
**Formulation:** White solid powder  
**Solubility:** Soluble in DMSO up to 35 mM  
**Chemical Name:** 4-(2-((2-(benzo[b]thiophen-3-yl)-9-isopropyl-9H-purin-6-yl)amino)ethyl)phenol  
**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C7710-1 (powder), add 232  $\mu$ L of DMSO to make 10 mM solution.
  - For C7710-1s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

**Biological Activity:** The compound StemRegenin1 (SR1) is a selective, cell permeable, small molecule that promotes the self-renewal of human hematopoietic stem cells in culture. SR1 is an antagonist of the aryl hydrocarbon receptor.

- Reference:**
1. Anthony E. Boitano et al. Aryl Hydrocarbon Receptor Antagonists Promote the Expansion of Human Hematopoietic Stem Cells. *Science* 10 September 2010: 1345-1348.
  2. Smith G.H. et al. Identification of a high-affinity ligand that exhibits complete aryl hydrocarbon receptor antagonism. *J Phar Exp Therap.* 338 2011: 318-327

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