

Catalog	Unit
TBI4508 - 1MG	1 mg
TBI4508 - 5MG	5 mg

Product Details

Formal Name: 4-[2-[[2-(1-benzothiophen-3-yl)-9-propan-2-yl]purin-6-yl]amino]ethyl]phenol

Molecular Formula: C₂₄H₂₃N₅OS·HCl

Formula Weight: 466.00

CAS Number: 1227633-49-9

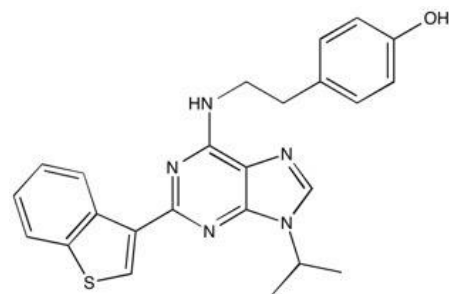
Purity: 99%

Formulation: Powder

Solubility: Soluble in DMSO (up to 10 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Maintains stem cells in pluripotent state.

Functions

SR1 (1227633-49-9) extends the pluripotency of hematopoietic stem cells by antagonizing the arylhydrocarbon receptor (AhR), IC₅₀ = 127 nM. The effect is dose-dependent and reversible. Displays a biphasic effect on CD34-negative cells with low doses (1 μM) enhancing proliferation and high doses (>5 μM) repressing proliferation. May be used to generate progenitor T cells from HSPCs as well as NK cells for immuno-oncology studies.

Application Procedures

First dissolved in DMSO (10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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