

# Thiazovivin

Catalog No: tcsc0468



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

**Size:** 200mg



## Specifications

**CAS No:**

1226056-71-8

**Formula:**

$C_{15}H_{13}N_5OS$

**Pathway:**

TGF-beta/Smad;Stem Cell/Wnt;Cell Cycle/DNA Damage

**Target:**

ROCK;ROCK;ROCK

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 30$  mg/mL (96.35 mM)

**Observed Molecular Weight:**

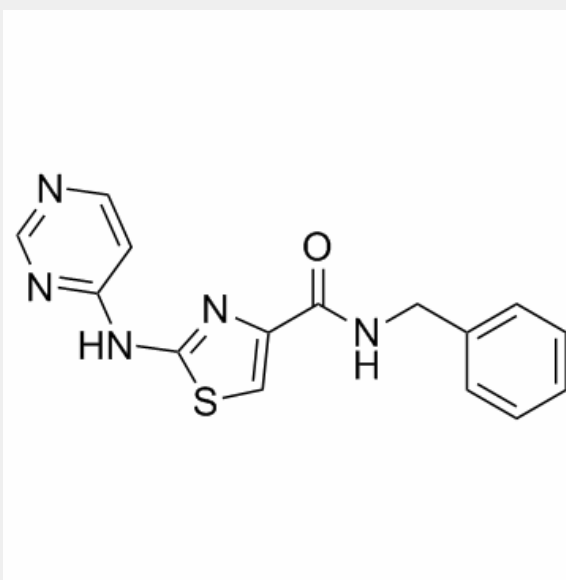
311.36

## Product Description

Thiazovivin is a potent **ROCK** inhibitor, which can protect human embryonic stem cells.

IC50 & Target: ROCK<sup>[1]</sup>

**In Vitro:** Thiazovivin is a ROCK inhibitor. Thiazovivin (2  $\mu$ M) inhibits ROCK activity and protects human embryonic stem cells (hESCs). Thiazovivin significantly increases the survival of hESCs after dissociation while maintaining pluripotency. Thiazovivin enhances cell-ECM adhesion-mediated integrin signaling. Thiazovivin also stabilizes E-cadherin after cell dissociation to protect hESCs from death under ECM-free conditions<sup>[1]</sup>. Thiazovivin increases cellular attachment of embryo-derived stem-like cells (eSLCs) of cattle and formation of primary colonies on the feeder layer. Thiazovivin reinforces putative colony outgrowth and supports the expansion of eSLC cultures during the subculture for passaging. Furthermore, Thiazovivin causes greater expression of ectodermal lineage-specific genes in eSLCs of cattle<sup>[2]</sup>.



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