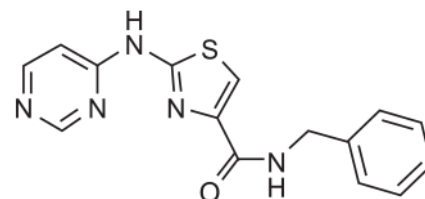


Thiazovivin

Catalog Number: ST10015



Size	2 mg
Description	Thiazovivin is a selective inhibitor of Rho-associated coiled-coil containing protein kinase (ROCK), a serine/threonine kinase that plays a role in cell polarity, contraction, and actin cytoskeleton reorganization. Thiazovivin has been shown to promote survival of human ES cells during dissociation by stabilizing E-cadherin and to improve cell attachment. It has also been shown to greatly enhance the efficiency of fibroblast reprogramming to generate iPS cells when used in combination with SB431542 and PD0325901.
Molecular Weight	311.36
Molecular Formula	C ₁₅ H ₁₃ N ₅ OS
Chemical Name	N-benzyl-2-(pyrimidin-4-ylamino)-1,3-thiazole-4-carboxamide
CAS Number	1226056-71-8
PubChem Identifier	46209426
Appearance	Off-white solid
Purity	>97% by HPLC analysis
Solubility	Soluble in DMSO at 100 mM
Reconstitution	For a 10 mM concentrated stock solution, reconstitute the compound by adding 642 μL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes.
Recommended Usage	For use in cell culture, warm medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 μm low-protein binding filter. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	Xu, Y., et al. (2010) Revealing a core signaling regulatory mechanism for pluripotent stem cell survival and self-renewal by small molecules. <i>Proc Natl Acad Sci USA</i> 107: 8129-8134. PMID: 20406903. Lin, T., et al. (2009) A chemical platform for improved induction of human iPSCs. <i>Nat Methods</i> 6: 805-808. PMID: 19838168.

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