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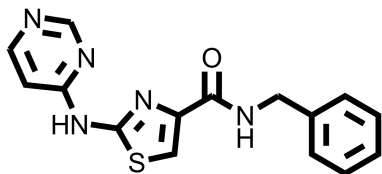
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Rock Inhibitor Thiazovivin

Chemical Name: N-Benzyl-2-(pyrimidin-4-ylamino)thiazole-4-carboxamide



| | |
|-------------------|---|
| Molecular Weight: | 311.36 |
| Formula: | C ₁₅ H ₁₃ N ₅ OS |
| Purity: | ≥98% |
| CAS#: | 1226056-71-8 |
| Solubility: | DMSO up to 100 mM |
| Storage | Powder: 4°C 1 year DMSO: 4°C 3 month -20°C 1 year |

Biological Activity:

Thiazovivin is a highly potent, selective, and cell-permeable small molecule Rock inhibitor with effective cellular activity ~ 2 μM. It can enhance survival of human embryonic stem cells (hESCs) or iPSCs after single cell dissociation by trypsin, and dramatically improve the reprogramming efficiency of iPSC (>200 folds) from human fibroblasts when used in combination with SB431542 and PD0325091. It has been shown to exhibit better activity than Y27632 in many stem cell assays.

How to Use:

In vitro: Thiazovivin is usually used at 0.5-2 μM final concentration in cell culture.

In vivo: n/a

Reference:

1. Lin T, et al. A chemical platform for improved induction of human iPSCs. (2009) Nat. Methods. 6(11), 805-8.
2. Xu Y, et al. Revealing a core signaling regulatory mechanism for pluripotent stem cell survival and self-renewal by small molecules. (2010) Proc. Natl. Acad. Sci. 107, 8129.

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