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**Product Description**

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**Molecular Name:** Thiazovivin  
**Alternative Names:** Tzv  
**CAS Number:** 1226056-71-8  
**Chemical Formula:** \( C_{18}H_{13}N_2OS \)  
**Molecular Weight:** 311.4 g/mol  
**Purity:** ≥ 98%  
**Chemical Name:** N-(phenylmethyl)-2-(4-pyrimidinylamino)-4-thiazolecarboxamide

**Physical Appearance:** A crystalline solid  
**Storage:** Product stable at -20°C as supplied. Protect from prolonged exposure to light. Stable as supplied for 12 months from date of receipt.

**Solubility:**  
- Absolute ethanol ≤ 3.2 mM  
- DMSO ≤ 40 mM  
For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 321 μL of DMSO.

Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application.

Compound has low solubility in aqueous media. For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.
Published Applications

MAINTENANCE AND SELF-RENEWAL
· Promotes survival of human embryonic stem (ES) cells during dissociation by stabilizing E-cadherin and improves cell attachment (Xu et al.).
· Promotes survival of single human induced pluripotent stem (iPS) cells during transfection for TALEN-mediated genome editing (Sun & Zhao).

REPROGRAMMING
· Increases the efficiency of reprogramming human somatic cells to iPS cells, in combination with PD032591 (Catalog #72182) and SB431542 (Catalog #72232) (Lin et al.).
· Increases the efficiency of reprogramming human cord blood mononuclear cells to iPS cells (Hu et al.).

References

Related Small Molecules
For a complete list of small molecules available from STEMCELL Technologies, visit www.stemcell.com/smallmolecules or contact us at techsupport@stemcell.com.

This product is hazardous. Please refer to the Safety Data Sheet (SDS).