

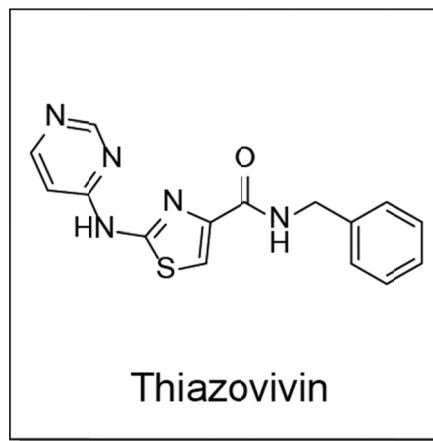


## Product Specification Sheet

**Product Name:** Thiazovivin  
**Catalog Number:** C8442-1 (powder)  
C8442-1s (10 mM in DMSO)  
**Package Size:** 1 mg

### Technical information:

**Chemical Formula:** C<sub>15</sub>H<sub>13</sub>N<sub>5</sub>OS  
**CAS #:** 1226056-71-8  
**Molecular Weight:** 311.36  
**Purity:** >98%  
**Formulation:** Light brown powder  
**Solubility:** Soluble in DMSO up to 100 mM  
**Chemical Name:** N-Benzyl-2-(pyrimidin-4-ylamino)thiazole-4-carboxamide  
**Storage:** Store solid powder at 4°C desiccated;  
Store DMSO solution at -20°C.



- Handling:**
- For C8442-1 (powder), add 321  $\mu$ L of DMSO to make 10 mM solution.
  - For C8442-1s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.

**Biological Activity:** Thiazovivin dramatically improves the survival of hESCs upon trypsinization. Thiazovivin in combination with inhibitors of the TGF- $\beta$  receptor and the MEK pathway improve reprogramming efficiency more than 200-fold.

- Reference:**
1. Lin, T., Ambasudhan, R., Yuan, X., Li, W., Hilcove, S., Abujarour, R., Lin, X., Hahm, H., Hao, E., Hayek, A., Ding, S. (2009) A chemical platform for improved induction of human iPSCs. *Nature Methods* 6, 805 - 808 (2009)

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