Catalog #: 72652

1 mg

**Stauprimide**

Inhibitor of NME2 localization; Suppresses c-MYC expression

**Stauprimide** specifically inhibits the nuclear localization of NME2, which results in the suppression of c-MYC—a key regulator of pluripotency—thereby priming cells for differentiation (Zhu et al.).

**Structure:**

![Stauprimide Structure](Image)

**Properties**

**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:**

- DMSO ≤ 15 mM
- Absolute ethanol ≤ 340 μM

For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 171 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

DIFFERENTIATION
- Enhances cytokine-mediated directed differentiation of mouse and human pluripotent stem cells to multiple lineages, including definitive endoderm, neural progenitor cells, and mesodermal derivatives such as cardiomyocytes (Zhu et al.; Tahamtani et al.).

References

Related Small Molecules
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