Product Description

Sinefungin is a DNA methyltransferase (DNMT) inhibitor (IC₅₀ = 0.1 - 20 µM; Copeland et al.) and an analog of the methyl donor S-adenosyl-L-methionine (SAM; Nolan; Horiuchi et al.).

Physical Appearance: A white solid

Storage: Product stable at 2 - 8°C as supplied. Protect product from prolonged exposure to light. For long-term storage store with a desiccant. For product expiry date, please contact techsupport@stemcell.com.

Solubility: Water ≤ 50 mM

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 water 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.

For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use.
Published Applications

IMMUNOLOGY
- Antiparasitic activity against malarial, trypanosomal, and leishmanial species (Nolan; Trager et al.; Dube et al.).
- Inhibits Newcastle disease and vaccinia virus multiplication (Pugh et al.).
- Inhibits pneumococcal biofilm growth in vitro and colonization in an in vivo rat model (Yadav et al.).

References

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

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