Product Description

HA-100 is an isoquinoline compound with an added piperazinylsulfonyl group that acts as an inhibitor of protein kinases (PKs), including PKA, PKC, and PKG (IC₅₀ = 8, 12, and 4 µM, respectively; Hagiwara et al.). It less effectively blocks the activity of myosin light chain kinase (IC₅₀ = 240 µM; Hagiwara et al.). This product is supplied as the dihydrochloride salt of the molecule.

Molecular Name: HA-100 (Dihydrochloride)
Alternative Names: Not applicable
CAS Number: 210297-47-5
Chemical Formula: C₁₃H₁₅N₃O₂S · 2HCl
Molecular Weight: 350.3 g/mol
Purity: ≥ 95%
Chemical Name: C-1; 5-(1-piperazinylsulfonyl)-isoquinoline, dihydrochloride

Properties

Physical Appearance: A crystalline solid
Storage: Product stable at -20°C as supplied. Protect from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Solubility: · DMSO ≤ 3.1 mM
For example, to prepare a 2 mM stock solution in DMSO, resuspend 1 mg in 1.43 mL of fresh 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
- Improves single cell survival and supports high cloning efficiency in human pluripotent stem cell cultures (Chen et al.).

REPROGRAMMING
- Increases human fibroblast reprogramming efficiency with PD0325901, CHIR99021, A83-01 and hLIF (Yu 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).