Neurodazine is a cell-permeable tri-substituted imidazole and neurogenic agent (Williams et al. 2007).

**Chemical Name:** 2-[5-(3-chlorophenyl)-2-furanyl]-4,5-bis(4-methoxyphenyl)-1H-imidazole

**Molecular Name:** Not applicable

**CAS Number:** 937807-66-4

**Chemical Formula:** C_{27}H_{21}ClN_{2}O_{3}

**Molecular Weight:** 456.9 g/mol

**Purity:** ≥ 98%

**Chemical Name:** 2-[5-(3-chlorophenyl)-2-furanyl]-4,5-bis(4-methoxyphenyl)-1H-imidazole

**Structure:**

![Chemical Structure of Neurodazine](image)

**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 ≤ 20 mM
- Absolute ethanol ≤ 20 mM

For example, to prepare a 10 mM stock solution in DMSO, resuspend 10 mg in 2.19 mL 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
- Induces neurogenesis of C2C12 myoblasts as well as mature human muscle cells, marked by upregulation of neural genes (Williams et al. 2007; Williams et al. 2008).
- Induces neurogenesis and prevents astrocyte differentiation of P19 mouse embryonic carcinoma cells (Kim et al.).
- Induces neuronal differentiation of human (SH-SY5Y) and mouse (Neuro-2a) neuroblastoma cells, and mouse NIH3T3 fibroblast cells (Halder 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).