

Product Name: Neurodazine

Catalog No.: 3656

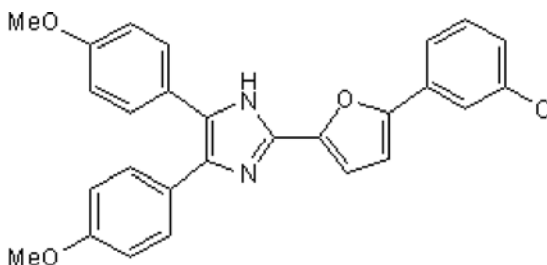
Batch No.: 1

CAS Number: 937807-66-4

IUPAC Name: 2-[5-(3-Chlorophenyl)-2-furanyl]-4,5-bis(4-methoxyphenyl)-1H-imidazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₁ClN₂O₃
Batch Molecular Weight: 456.92
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Ethyl acetate:Petroleum ether [3:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 70.97 | 4.63 | 6.13 |
| Found | 70.63 | 4.73 | 6.11 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Induces neurogenesis of non-pluripotent C2C12 myoblasts and cells derived from mature human skeletal muscle. Upregulates the expression of neuron-specific markers in C2C12 cells.

Physical and Chemical Properties:

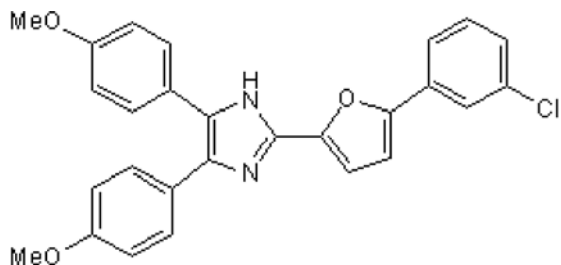
Batch Molecular Formula: C₂₇H₂₁ClN₂O₃

Batch Molecular Weight: 456.92

Physical Appearance: Off-white solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Halder *et al* (2015) Combining suppression of stemness with lineage-specific induction leads to conversion of pluripotent cells into functional neurons. *Chem.Biol.* **22** 1512. PMID: 26590637.

Williams *et al* (2007) Synthetic small molecules that induce neurogenesis in skeletal muscle. *J.Am.Chem.Soc.* **129** 9258. PMID: 17622149.

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