

Certificate of Analysis

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Product Name: YE 120

Catalog No.: 4457

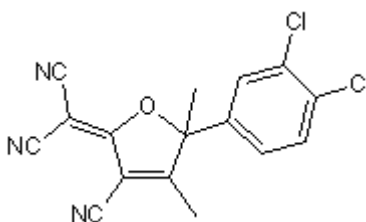
Batch No.: 1

CAS Number: 383124-82-1

IUPAC Name: 2-[3-Cyano-5-(3,4-dichlorophenyl)-4,5-dimethyl-2(5H)-furylidene]propanedinitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₉Cl₂N₃O
Batch Molecular Weight: 330.17
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.21	2.75	12.73
Found	58.08	2.68	12.74

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

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IUPAC Name: 2-[3-Cyano-5-(3,4-dichlorophenyl)-4,5-dimethyl-2(5H)-furanlydene]propanedinitrile

Description:

GPR35 agonist (EC_{50} = 32 nM in DMR assays). Also displays partial agonist activity in a β -arrestin translocation assay (EC_{50} = 10.2 μ M).

Physical and Chemical Properties:

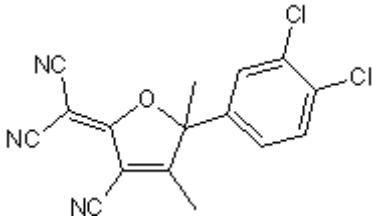
Batch Molecular Formula: $C_{16}H_9Cl_2N_3O$

Batch Molecular Weight: 330.17

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Deng et al (2011) Discovery of 2-(4-methylfuran-2(5H)-ylidene)malononitrile and thieno[3,2-*b*]thiophene-2-carboxylic acid derivatives as G protein-coupled receptor 35 (GPR35) agonists. *J. Med. Chem.* **54** 7385. PMID: 21950657.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

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