

Certificate of Analysis

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Product Name: WDR5 0103

Catalog No.: 5323

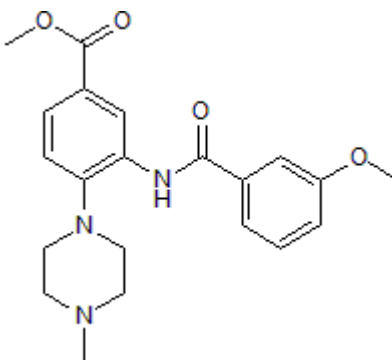
Batch No.: 1

CAS Number: 890190-22-4

IUPAC Name: 3-[(3-Methoxybenzoyl)amino]-4-(4-methyl-1-piperazinyl)benzoic acid methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅N₃O₄
Batch Molecular Weight: 383.44
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.78	6.57	10.96
Found	65.95	6.59	10.92

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

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Description:

WD repeat-containing protein 5 (WDR5) antagonist ($K_d = 450$ nM). Disrupts WDR5 interaction with MLL and inhibits MLL core complex methyltransferase activity in vitro. Has no effect on a panel of seven other methyltransferases, including SETD7.

Physical and Chemical Properties:

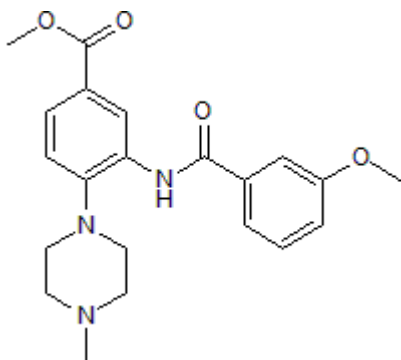
Batch Molecular Formula: $C_{21}H_{25}N_3O_4$

Batch Molecular Weight: 383.44

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Senisterra et al (2013) Small-molecule inhibition of MLL activity by disruption of its interaction with WDR5. *Biochem.J.* **449** 151. PMID: 22989411.

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.

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