

Product Name: A 366

Catalog No.: 5163

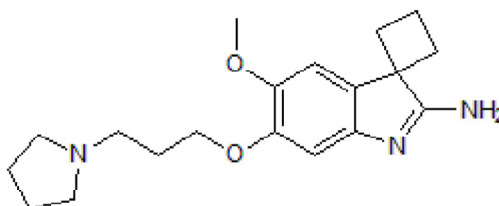
Batch No.: 2

CAS Number: 1527503-11-2

IUPAC Name: 5'-Methoxy-6'-[3-(1-pyrrolidinyl)propoxy]spiro[cyclobutane-1,3'-[3H]indol]-2'-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₇N₃O₂
Batch Molecular Weight: 329.44
Physical Appearance: Off White solid
Solubility: 1eq. HCl to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.27	8.26	12.76
Found	69.35	8.2	12.91

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

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Description:

A 366 is a potent and selective G9a/GLP histone lysine methyltransferase inhibitor (IC₅₀ = 3.3 nM). Exhibits >1000-fold selectivity for G9a/GLP over 21 other methyltransferases. Decreases levels of lysine 9 dimethylation on histone H3 (H3K9Me2) in PC3 cells.

Physical and Chemical Properties:

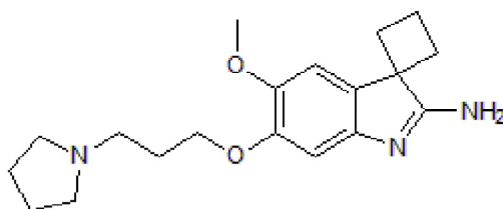
Batch Molecular Formula: C₁₉H₂₇N₃O₂

Batch Molecular Weight: 329.44

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

1eq. HCl to 100 mM

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the A 366 probe summary on the SGC website.

References:

Scheer *et al* (2019) A chemical biology toolbox to study protein methyltransferases and epigenetic signaling. *Nat.Commun.* **10** 19. PMID: 30604761.

Sweis *et al* (2014) Discovery and development of potent and selective inhibitors of histone methyltransferase G9a. *ACS Med.Chem.Lett.* **5** 205. PMID: 24900801.

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