

Certificate of Analysis

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Product Name: BRD 4770

Catalog No.: 6282

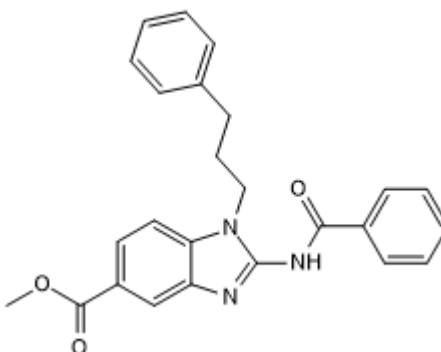
Batch No.: 1

CAS Number: 1374601-40-7

IUPAC Name: Methyl-2-(benzoylamino)-1-(3-phenylpropyl)-1*H*-benzimidazole-5-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₃N₃O₃
Batch Molecular Weight: 413.47
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at +4°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	72.62	5.61	10.16
Found	72.23	5.61	10.2

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

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IUPAC Name: Methyl-2-(benzoylamino)-1-(3-phenylpropyl)-1H-benzimidazole-5-carboxylate

Description:

G9a inhibitor and S-adenosyl methionine (SAM) mimetic. Inhibits methylation of H3K9 (EC₅₀ ~ 5 μM) and induces senescence in PANC-1 cells. Induces ATM activation without DNA damage. Cell permeable.

Physical and Chemical Properties:

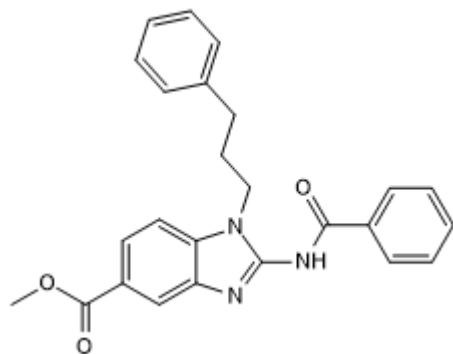
Batch Molecular Formula: C₂₅H₂₃N₃O₃

Batch Molecular Weight: 413.47

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Yuan *et al* (2012) A small-molecule probe of the histone methyltransferase G9a induces cellular senescence in pancreatic adenocarcinoma. *ACS Chem.Biol.* **7** 1152. PMID: 22536950 .

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