

## Certificate of Analysis

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**Product Name:** GSK 5959

**Catalog No.:** 5385

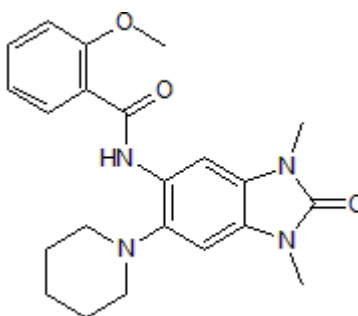
**Batch No.:** 1

CAS Number: 901245-65-6

IUPAC Name: *N*-[2,3-Dihydro-1,3-dimethyl-2-oxo-6-(1-piperidinyl)-1*H*-benzimidazol-5-yl]-2-methoxybenzamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 394.47  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 10 mM with sonication  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.99	6.64	14.2
Found	67.1	6.62	14.24

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

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**Description:**

Potent and selective BRPF1 bromodomain inhibitor (IC<sub>50</sub> = 80 nM). Exhibits >100-fold selectivity for BRPF1 over a panel of 35 other bromodomains, including BRPF2/3 and BET family bromodomains. Inhibits BRPF1 interaction with histone H3.3. Cell permeable.

**Physical and Chemical Properties:**

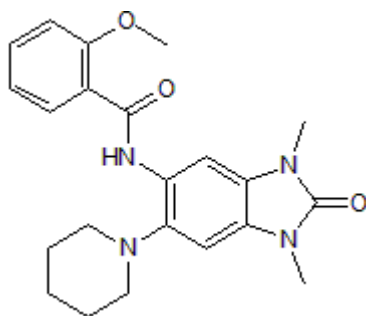
Batch Molecular Formula: C<sub>22</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>

Batch Molecular Weight: 394.47

Physical Appearance: Pale yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Demont et al** (2014) 1,3-dimethyl benzimidazolones are potent, selective inhibitors of the BRPF1 bromodomain. *ACS Med.Chem.Lett.* **5** 1190. PMID: 25408830.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 mM with sonication

**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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