

Product Name: OF 1

Catalog No.: 5289

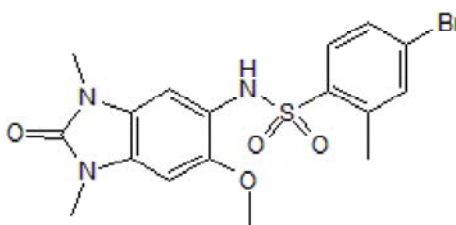
Batch No.: 1

CAS Number: 919973-83-4

IUPAC Name: 4-Bromo-*N*-(2,3-dihydro-6-methoxy-1,3-dimethyl-2-oxo-1*H*-benzimidazol-5-yl)-2-methylbenzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈BrN₃O₄S
Batch Molecular Weight: 440.31
Physical Appearance: Beige solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.37	4.12	9.54
Found	46.56	4.14	9.61

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

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Product Name: OF 1

Catalog No.: 5289

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CAS Number: 919973-83-4

IUPAC Name: 4-Bromo-N-(2,3-dihydro-6-methoxy-1,3-dimethyl-2-oxo-1H-benzimidazol-5-yl)-2-methylbenzenesulfonamide

Description:

Selective BRPF1B and BRPF2 bromodomain inhibitor (K_d values are 100 and 500 nM respectively). Exhibits 39-fold selectivity for BRPF1B and BRPF2 over BRD4. Accelerates FRAP recovery at 5 μ M in a BRPF2 FRAP assay. Inhibits RANKL-induced differentiation of primary murine bone marrow cells and human primary monocytes into osteoclasts.

Physical and Chemical Properties:

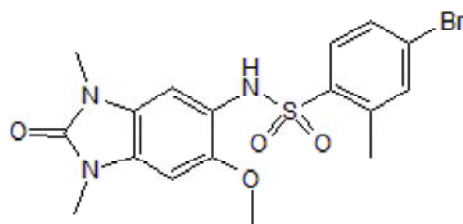
Batch Molecular Formula: C₁₇H₁₈BrN₃O₄S

Batch Molecular Weight: 440.31

Physical Appearance: Beige solid

Minimum Purity: \geq 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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the OF 1 probe summary on the SGC website.

References:

Meier et al (2017) Selective targeting of bromodomains of the bromodomain-PHD fingers family impairs osteoclast differentiation. ACS Chem.Biol. **12** 2619. PMID: 28849908.

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