

Product Name: PDD 00017238

Catalog No.: 7007

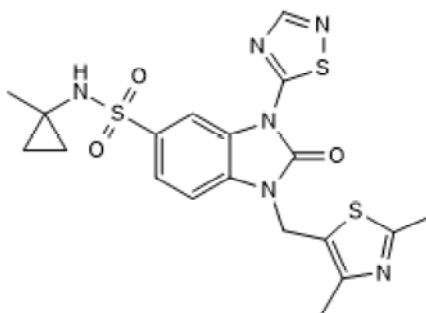
Batch No.: 1

CAS Number: 1952247-05-0

IUPAC Name: 1-[(2,4-Dimethyl-5-thiazolyl)methyl]-2,3-dihydro-*N*-(1-methylcyclopropyl)-2-oxo-3-(1,2,4-thiadiazol-5-yl)-1*H*-benzimidazole-5-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₀ N ₆ O ₃ S ₃
Batch Molecular Weight:	476.59
Physical Appearance:	Off-white solid
Solubility:	DMSO to 2 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.1% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	47.88	4.23	17.63
Found	47.92	4.25	17.43

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

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Description:

High affinity and potent PARG inhibitor ($K_d = 3.09$ nM; $IC_{50} = 40$ nM). Negative control PDD 00031705 (Cat. No. 7009) also available.

Physical and Chemical Properties:

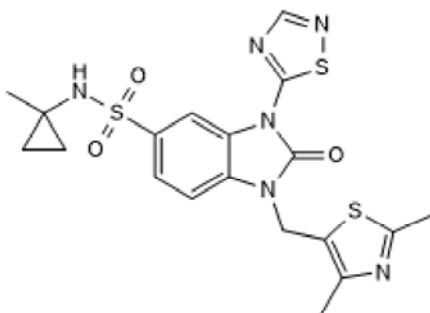
Batch Molecular Formula: $C_{19}H_{20}N_6O_3S_3$

Batch Molecular Weight: 476.59

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 2 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under license from Cancer Research Technology Ltd (Ximbio).

References:

James *et al* (2016) First-in-class chemical probes against poly(ADP-ribose) glycohydrolase (PARG) inhibit DNA repair with differential pharmacology to Olaparib. *ACS Chem.Biol.* **11** 3179. PMID: 27689388.

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