

Certificate of Analysis

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Product Name: C26-A6

Catalog No.: 7692

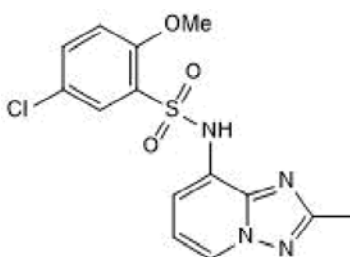
Batch No.: 1

CAS Number: 1341030-00-9

IUPAC Name: 5-Chloro-2-methoxy-N-(2-methyl[1,2,4]triazolo[1,5-a]pyridin-8-yl)benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₃ClN₄O₃S.
Batch Molecular Weight: 352.79
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.66	3.71	15.88
Found	47.86	3.63	15.78

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

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IUPAC Name: 5-Chloro-2-methoxy-N-(2-methyl[1,2,4]triazolo[1,5-a]pyridin-8-yl)benzenesulfonamide

Description:

C26-A2 inhibits the interaction between MTDH and SND1 by blocking the SND1 pocket. C26-A2 disrupts MTDH-SND1 complex-induced reduction in tumor antigen presentation and T cell infiltration; enhancing immune surveillance and sensitivity to anti-PD-1 therapy in metastatic breast cancer mouse models. C26-A6 suppresses tumor growth ($IC_{50} = 12.3 \mu M$) and metastasis and enhances chemotherapy sensitivity in triple-negative breast cancer (TNBC) mouse models.

Physical and Chemical Properties:

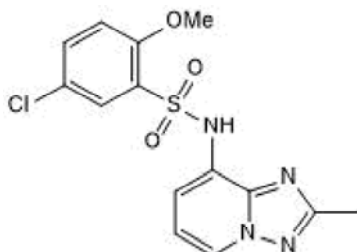
Batch Molecular Formula: $C_{14}H_{13}ClN_4O_3S$.

Batch Molecular Weight: 352.79

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Shen et al (2022) Pharmacological disruption of the MTDH-SND1 complex enhances tumor antigen presentation and synergizes with anti-PD-1 therapy in metastatic breast cancer. *Nat.Cancer* **3** (1) 60. PMID: 35121988.

Shen et al (2022) Small-molecule inhibitors that disrupt the MTDH-SND1 complex suppress breast cancer progression and metastasis. *Nat.Cancer* **3** (1) 43. PMID: 35121987.

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

Solubility & Usage Info:

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 $45-60^{\circ}C$ 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.

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