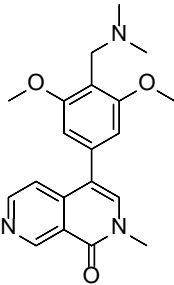


Product data sheet



| | |
|---|---|
| MedKoo Cat#: 406830 Name: BI-7273 CAS#: 1883429-21-7 Chemical Formula: C ₂₀ H ₂₃ N ₃ O ₃ Exact Mass: 353.1739 Molecular Weight: 353.42 |  |
| Product supplied as: | Powder |
| Purity (by HPLC): | ≥ 98% |
| Shipping conditions | Ambient temperature |
| Storage conditions: | Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks. |

1. Product description:

BI-7273 is a potent and selective BRD9 inhibitor. BI-7273 may be useful in further exploring BRD9 bromodomain biology in both in vitro and in vivo settings. Selective inhibitors of bromodomain-containing protein 9 (BRD9) may have therapeutic potential in the treatment of human malignancies and inflammatory diseases.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

| Solvent | Max Conc. mg/mL | Max Conc. mM |
|--------------|-----------------|--------------|
| DMSO | 26.70 | 75.55 |
| Ethanol | 35.01 | 99.06 |
| PBS (pH 7.2) | 0.10 | 0.28 |

4. Stock solution preparation table:

| Concentration / Solvent Volume / Mass | 1 mg | 5 mg | 10 mg |
|---------------------------------------|---------|----------|----------|
| 1 mM | 2.83 mL | 14.15 mL | 28.29 mL |
| 5 mM | 0.57 mL | 2.83 mL | 5.66 mL |
| 10 mM | 0.28 mL | 1.41 mL | 2.83 mL |
| 50 mM | 0.06 mL | 0.28 mL | 0.57 mL |

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Martin LJ, Koegl M, Bader G, Cockcroft XL, Fedorov O, Fiegen D, Gerstberger T, Hofmann MH, Hohmann AF, Kessler D, Knapp S, Knesl P, Kornigg S, Müller S, Nar H, Rogers C, Rumpel K, Schaaf O, Steurer S, Tallant C, Vakoc CR, Zeeb M, Zoephel A, Pearson M, Boehmelt G, McConnell D. Structure-Based Design of an in Vivo Active Selective BRD9 Inhibitor. *J Med Chem.* 2016 May 26;59(10):4462-75. doi: 10.1021/acs.jmedchem.5b01865. Epub 2016 Mar 10. PMID: 26914985; PMCID: PMC4885110.

In vivo study

TBD

7. Bioactivity

Biological target:

BI-7273 is a BRD9 inhibitor with an IC₅₀ of 19 nM.

In vitro activity

Product data sheet



The cellular response to BRD9 inhibition was assessed in a broad cancer cell line panel. Treatment of the panel with BI-7273 resulted in decreased proliferation in the murine AML RN2 cell line. As observed from the phenotype of murine cells exposed to BI-7273, BRD9 inhibition translated into a potent but only partial inhibition of MYC expression in AML cell lines (Supporting Information Figure 32a–d).

Reference: J Med Chem. 2016 May 26;59(10):4462-75. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885110/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.